

## **CS 305 Module Two Coding Assignment**

### 1. Run Dependency Check



#### 2. Document Results

Depend ency	Vulnerability IDs	Package	Highes t Sever ity	CVE Cou nt	Conf iden ce	Eviden ce Cou nt
classma te- 1.5.1.jar		pkg:maven/com.faster xml/classmate@1.5.1		0		57
hibernat e- validator - 6.0.18.F inal.jar	cpe:2.3:a:redhat:hibernate_validator:6.0.18:*:*:*:*:*:*	pkg:maven/org.hibern ate.validator/hibernat e- validator@6.0.18.Fina l	MEDIU M	1	High est	34
jackson- core- 2.10.2.ja r	cpe:2.3:a:fasterxml:jackson-modules-java8:2.10.2:*:*:*:*:*:*	pkg:maven/com.faster xml.jackson.core/jack son-core@2.10.2		0	Low	47
jackson- databind = 2.10.2.ja r	cpe:2.3:a:fasterxml:jackson- databind:2.10.2:*:*:*:*:* cpe:2.3:a:fasterxml:jackson- modules- java8:2.10.2:*:*:*:*:*	pkg:maven/com.faster xml.jackson.core/jack son-databind@2.10.2	HIGH	4	High est	41



<u>Depend</u> <u>ency</u>	Vulnerability IDs	Package	Highes t Sever ity	CVE Cou nt	Conf iden ce	Eviden ce Cou nt
jakarta.a nnotatio n-api- 1.3.5.jar	cpe:2.3:a:oracle:java_se:1.3.5: *:*:*:*:*:* cpe:2.3:a:oracle:projects:1.3.5 :*:*:*:*:*:*	pkg:maven/jakarta.an notation/jakarta.annot ation-api@1.3.5		0	Low	37
jakarta.v alidation -api- 2.0.2.jar		pkg:maven/jakarta.val idation/jakarta.validati on-api@2.0.2		0		58
iboss- logging- 3.4.1.Fi nal.jar		pkg:maven/org.jboss.logging/jboss- logging@3.4.1.Final		0		44
jul-to- slf4j- 1.7.30.ja r		pkg:maven/org.slf4j/ju l-to-slf4j@1.7.30		0		26
log4j- api- 2.12.1.ja r	<u>cpe:2.3:a:apache:log4j:2.12.1:</u> *************	pkg:maven/org.apach e.logging.log4j/log4j- api@2.12.1	LOW	1	High est	44
log4j-to- slf4j- 2.12.1.ja r		pkg:maven/org.apach e.logging.log4j/log4j- to-slf4j@2.12.1		0		42
logback- core- 1.2.3.jar	cpe:2.3:a:qos:logback:1.2.3:*:*  :*:*:*:*:*	pkg:maven/ch.qos.log back/logback- core@1.2.3	MEDIU M	1	High est	33
mongo- java- driver- 2.4.jar	cpe:2.3:a:mongodb:java drive r:2.4:*:*:*:*:*:*	pkg:maven/org.mong odb/mongo-java- driver@2.4	MEDIU M	1	High est	20
slf4j-api- 1.7.30.ja <u>r</u>		pkg:maven/org.slf4j/sl f4j-api@1.7.30		0		27
snakeya ml- 1.25.jar	cpe:2.3:a:snakeyaml_project:s nakeyaml:1.25:*:*:*:*:*:* cpe:2.3:a:yaml_project:yaml:1. 25:*:*:*:*:*	pkg:maven/org.yaml/s nakeyaml@1.25	HIGH	6	High est	46
spring- boot- 2.2.4.R	<pre>cpe:2.3:a:vmware:spring_boot :2.2.4:release:*:*:*:*:*</pre>	pkg:maven/org.spring framework.boot/sprin g-	HIGH	1	High est	39



<u>Depend</u> <u>ency</u>	Vulnerability IDs	Package	Highes t Sever ity	CVE Cou nt	Conf iden ce	Eviden ce Cou nt
ELEAS E.jar		boot@2.2.4.RELEAS E				
spring- core- 5.2.3.R ELEAS E.jar	cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:  *:*:*:*  cpe:2.3:a:springsource:spring_framework:5.2.3:release:*:*:*:  cpe:2.3:a:vmware:spring_framework:5.2.3:release:*:*:*:*	pkg:maven/org.spring framework/spring- core@5.2.3.RELEAS E	CRITIC AL	9	High est	36
spring- web- 5.2.3.R ELEAS E.jar	cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:  *:*:*:*  cpe:2.3:a:springsource:spring_framework:5.2.3:release:*:*:*:  cpe:2.3:a:vmware:spring_framework:5.2.3:release:*:*:*:*	pkg:maven/org.spring framework/spring- web@5.2.3.RELEAS E	CRITIC AL	10	High est	34
tomcat- embed- core- 9.0.30.ja r	cpe:2.3:a:apache:tomcat:9.0.3 0:*:*:*:*:*:* cpe:2.3:a:apache_tomcat:apa che_tomcat:9.0.30:*:*:*:*:*:*	pkg:maven/org.apach e.tomcat.embed/tomc at-embed- core@9.0.30	CRITIC AL	19	High est	33
tomcat- embed- el- 9.0.30.ja r		pkg:maven/org.apach e.tomcat.embed/tomc at-embed-el@9.0.30		0		30
tomcat- embed- websoc ket- 9.0.30.ja	cpe:2.3:a:apache:tomcat:9.0.3 0:*:*:*:*:*:* cpe:2.3:a:apache_tomcat:apa che_tomcat:9.0.30:*:*:*:*:*:*	pkg:maven/org.apach e.tomcat.embed/tomc at-embed- websocket@9.0.30	CRITIC AL	20	High est	32

# 3. Analyze Results

Within the list of dependencies, there is a shorter list of vulnerabilities. This list should be approached with critical items first to ensure the project is secure. The suppression of false positive items allows developers to focus on actual issues.

Specifically, this project has the following issue:



Depend ency	Vulnerability IDs	Package	Highes t Sever ity	CVE Cou nt	Conf iden ce	Eviden ce Cou nt
hibernat e- validator = 6.0.18.Fi nal.jar	cpe:2.3:a:redhat:hibernate_validator:6.0.18:*:*:*:*:*:*	pkg:maven/org.hibern ate.validator/hibernat e- validator@6.0.18.Fin al	MEDIU M	1	High est	34
jackson- databind - 2.10.2.ja r	cpe:2.3:a:fasterxml:jackson-databind:2.10.2:*:*:*:*:* cpe:2.3:a:fasterxml:jackson-modules-java8:2.10.2:*:*:*:*:*:*	pkg:maven/com.faste rxml.jackson.core/jac kson- databind@2.10.2	HIGH	4	High est	41
log4j- api- 2.12.1.ja r	cpe:2.3:a:apache:log4j:2.12.1: *:*:*:*:*:*	pkg:maven/org.apach e.logging.log4j/log4j- api@2.12.1	LOW	1	High est	44
logback- core- 1.2.3.jar	cpe:2.3:a:qos:logback:1.2.3:*:* :*:*:*:*:*	pkg:maven/ch.qos.log back/logback- core@1.2.3	MEDIU M	1	High est	33
mongo- java- driver- 2.4.jar	cpe:2.3:a:mongodb:java_drive r:2.4:*:*:*:*:*:*	pkg:maven/org.mong odb/mongo-java- driver@2.4	MEDIU M	1	High est	20
snakeya ml- 1.25.jar	cpe:2.3:a:snakeyaml_project:s nakeyaml:1.25:*:*:*:*:*:* cpe:2.3:a:yaml_project:yaml:1. 25:*:*:*:*:*:*	pkg:maven/org.yaml/ snakeyaml@1.25	HIGH	6	High est	46
spring- boot- 2.2.4.RE LEASE.j ar	cpe:2.3:a:vmware:spring_boot: 2.2.4:release:*:*:*:*:*	pkg:maven/org.spring framework.boot/sprin g- boot@2.2.4.RELEAS E	HIGH	1	High est	39
spring- core- 5.2.3.RE LEASE.j ar	cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:  *:**:*:*  cpe:2.3:a:springsource:spring_framework:5.2.3:release:*:*:*:  cpe:2.3:a:vmware:spring_framework:5.2.3:release:*:*:*:*:*	pkg:maven/org.spring framework/spring- core@5.2.3.RELEAS E	CRITIC AL	9	High est	36
spring- web- 5.2.3.RE	cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:	pkg:maven/org.spring framework/spring- web@5.2.3.RELEAS E	CRITIC AL	10	High est	34



Depend ency	Vulnerability IDs	Package	Highes t Sever ity	CVE Cou nt	Conf iden ce	Eviden ce Cou nt
<u>LEASE.j</u> <u>ar</u>	framework:5.2.3:release:*:*:*:  *:*  cpe:2.3:a:vmware:spring_fram ework:5.2.3:release:*:*:*:*:*:*					
tomcat- embed- core- 9.0.30.ja r	cpe:2.3:a:apache:tomcat:9.0.3 0:*·*:*:*:* cpe:2.3:a:apache tomcat:apac he_tomcat:9.0.30:*:*:*:*:*:*	pkg:maven/org.apach e.tomcat.embed/tomc at-embed- core@9.0.30	CRITIC AL	19	High est	33
tomcat- embed- websock et- 9.0.30.ja	cpe:2.3:a:apache:tomcat:9.0.3 0:*:*:*:*:* cpe:2.3:a:apache_tomcat:apac he_tomcat:9.0.30:*:*:*:*:*:*	pkg:maven/org.apach e.tomcat.embed/tomc at-embed- websocket@9.0.30	CRITIC AL	20	High est	32

### I would focus on this issue first:

The issue would need to be evaluated based NVD database and the system configuration being run, and then appropriate precautions would be taken.

There is disparate information from the sources, so a deep dive into the issues would need to occur.

pkg:maven/org.apache.tomcat.embed/tomcat-embed-websocket@9.0.30 indicates no vulnerabilities.



← Back to Component Details



## tomcat-embed-websocket

org.apache.tomcat.embed Version 9.0.30

#### **Vulnerabilities**

This version of tomcat-embed-websocket has no known vulnerabilities! 🔉

### cpe:2.3:a:apache:tomcat:9.0.30:\*:\*:\*:\*:\*:\* Has a rather long list.

