



Dependency-Check is an open source tool performing a best effort analysis of 3rd party dependencies; false positives and false negatives may exist in the analysis performed by the tool. Use of the tool and the reporting provided constitutes acceptance for use in an AS IS condition, and there are NO warranties, implied or otherwise, with regard to the analysis or its use. Any use of the tool and the reporting provided is at the user's risk. In no event shall the copyright holder or OWASP be held liable for any damages whatsoever arising out of or in connection with the use of this tool, the analysis performed, or the resulting report.

[How to read the report](#) | [Suppressing false positives](#) | [Getting Help: github issues](#)

 [Sponsor](#)

Project: ssl-server

com.snhu:ssl-server:0.0.1-SNAPSHOT

Scan Information ([show all](#)):

- *dependency-check version:* 10.0.4
- *Report Generated On:* Sun, 20 Oct 2024 13:06:38 -0400
- *Dependencies Scanned:* 49 (32 unique)
- *Vulnerable Dependencies:* 17
- *Vulnerabilities Found:* 134
- *Vulnerabilities Suppressed:* 0
- ...

Summary

Display: [Showing Vulnerable Dependencies \(click to show all\)](#)

Dependency	Vulnerability IDs	Package	Highest Severity	CVE Count	Confidence
hibernate-validator-6.0.18.Final.jar	cpe:2.3:a:redhat:hibernate_validator:6.0.18:*:*:*:*:*	pkg:maven/org.hibernate.validator/hibernate-validator@6.0.18.Final	MEDIUM	1	Highest
jackson-databind-2.10.2.jar	cpe:2.3:a:fasterxml:jackson-databind:2.10.2:*:*:*:*:* cpe:2.3:a:fasterxml:jackson-modules-java8:2.10.2:*:*:*:*:*	pkg:maven/com.fasterxml.jackson.core/jackson-databind@2.10.2	HIGH	6	Highest
json-path-2.4.0.jar	cpe:2.3:a:json-path:jayway_jsonpath:2.4.0:*:*:*:*:*	pkg:maven/com.jayway.jsonpath/json-path@2.4.0	MEDIUM	1	Highest
json-smart-2.3.jar	cpe:2.3:a:json-smart_project:json-smart:2.3:*:*:*:*:* cpe:2.3:a:json-smart_project:json-smart-v2:2.3:*:*:*:*:*	pkg:maven/net.minidev/json-smart@2.3	HIGH	3	Highest
log4j-api-2.12.1.jar	cpe:2.3:a:apache:log4j:2.12.1:*:*:*:*:*	pkg:maven/org.apache.logging.log4j/log4j-api@2.12.1	LOW	1	Highest
logback-core-1.2.3.jar	cpe:2.3:a:qos:logback:1.2.3:*:*:*:*:*	pkg:maven/ch.qos.logback/logback-core@1.2.3	HIGH	2	Highest
snakeyaml-1.25.jar	cpe:2.3:a:snakeyaml_project:snakeyaml:1.25:*:*:*:*:*	pkg:maven/org.yaml/snakeyaml@1.25	CRITICAL	8	Highest
spring-boot-2.2.4.RELEASE.jar	cpe:2.3:a:vmware:spring_boot:2.2.4:release:*:*:*:*	pkg:maven/org.springframework.boot/spring-boot@2.2.4.RELEASE	CRITICAL	3	Highest
spring-boot-starter-web-2.2.4.RELEASE.jar	cpe:2.3:a:vmware:spring_boot:2.2.4:release:*:*:*:* cpe:2.3:a:web_project:web:2.2.4:release:*:*:*:*	pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE	CRITICAL	3	Highest
spring-core-5.2.3.RELEASE.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.springframework/spring-core@5.2.3.RELEASE	CRITICAL*	11	Highest
spring-data-rest-webmvc-3.2.4.RELEASE.jar	cpe:2.3:a:pivotal_software:spring_data_rest:3.2.4:release:*:*:*:* cpe:2.3:a:vmware:spring_data_rest:3.2.4:release:*:*:*:*	pkg:maven/org.springframework.data/spring-data-rest-webmvc@3.2.4.RELEASE	MEDIUM	2	Highest
spring-expression-5.2.3.RELEASE.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.springframework/spring-expression@5.2.3.RELEASE	CRITICAL*	12	Highest
spring-hateoas-1.0.3.RELEASE.jar	cpe:2.3:a:vmware:spring_hateoas:1.0.3:release:*:*:*:*	pkg:maven/org.springframework.hateoas/spring-hateoas@1.0.3.RELEASE	MEDIUM	1	Highest
spring-web-5.2.3.RELEASE.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:*:*:*:* cpe:2.3:a:web_project:web:5.2.3:release:*:*:*:*	pkg:maven/org.springframework/spring-web@5.2.3.RELEASE	CRITICAL*	15	Highest
spring-webmvc-5.2.3.RELEASE.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:*:*:*:* cpe:2.3:a:web_project:web:5.2.3:release:*:*:*:*	pkg:maven/org.springframework/spring-webmvc@5.2.3.RELEASE	CRITICAL*	12	Highest
tomcat-embed-core-9.0.30.jar	cpe:2.3:a:apache:tomcat:9.0.30:*:*:*:* cpe:2.3:a:apache_tomcat:apache_tomcat:9.0.30:*:*:*:*	pkg:maven/org.apache.tomcat.embed/tomcat-embed-core@9.0.30	CRITICAL*	26	Highest

Dependency	Vulnerability IDs	Package	Highest Severity	CVE Count	Confidence
tomcat-embed-websocket-9.0.30.jar	cpe:2.3:a:apache:tomcat:9.0.30:*:*:*:*:* cpe:2.3:a:apache_tomcat:apache_tomcat:9.0.30:*:*:*:*	pkg:maven/org.apache.tomcat.embed/tomcat-embed-websocket@9.0.30	CRITICAL*	27	Highest

* indicates the dependency has a known exploited vulnerability

Dependencies (vulnerable)

hibernate-validator-6.0.18.Final.jar

Description:

Hibernate's Bean Validation (JSR-380) reference implementation.

License:

<http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\org\hibernate\validator\hibernate-validator\6.0.18.Final\hibernate-validator-6.0.18.Final.jar

MD5: d3eeb4f1bf013d939b86dfc34b0c6a5d

SHA1: 7fd00bcd87e14b6ba66279282ef15efa30dd2492

SHA256: 79fb11445bc48e1ea6fb259e825d58b3c9a5fa2b7e3c9527e41e4aeda82de907

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.hibernate.validator/hibernate-validator@6.0.18.Final](#) (*Confidence:High*)
- [cpe:2.3:a:redhat:hibernate_validator:6.0.18:*:*:*:*:*](#) (*Confidence:Highest*) suppress

Published Vulnerabilities

[CVE-2020-10693](#) suppress

A flaw was found in Hibernate Validator version 6.1.2.Final. A bug in the message interpolation processor enables invalid EL expressions to be evaluated as if they were valid. This flaw allows attackers to bypass input sanitation (escaping, stripping) controls that developers may have put in place when handling user-controlled data in error messages.

CWE-20 Improper Input Validation

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-10693\] CWE-20: Improper Input Validation](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-10693>
- OSSIndex - <https://github.com/hibernate/hibernate-validator/pull/1092>
- OSSIndex - <https://github.com/hibernate/hibernate-validator/pull/1093>
- OSSIndex - <https://github.com/hibernate/hibernate-validator/pull/1094>
- OSSIndex - <https://hibernate.atlassian.net/browse/HV-1774>
- OSSIndex - <https://in.relation.to/2020/05/07/hibernate-validator-615-6020-released/>
- OSSIndex - <https://openliberty.io/docs/latest/security-vulnerabilities.html>
- secalert@redhat.com - [ISSUE_TRACKING_THIRD_PARTY_ADVISORY](#)
- secalert@redhat.com - [PATCH_THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:redhat:hibernate_validator:*:*:*:*:* versions from \(including\) 5.0.0; versions up to \(excluding\) 6.0.20](#)
- ...

jackson-databind-2.10.2.jar

Description:

General data-binding functionality for Jackson: works on core streaming API

License:

<http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\com\fasterxml\jackson\core\jackson-databind\2.10.2\jackson-databind-2.10.2.jar

MD5: 057751b4e2dd1104be8caad6e9a3e589

SHA1: 0528de95f198afafbcfb0c09d2e43b6e0ea663ec
SHA256:42c25644e35fadfbdded1b7f35a8d1e70a86737f190e43aa2c56cea4b96cbda88
Referenced In Project/Scope: ssl-server:compile
Included by: pkg:maven/org.springframework.boot/spring-boot-starter-data-rest@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/com.fasterxml.jackson.core/jackson-databind@2.10.2](#) (Confidence:High)
- [cpe:2.3:a:fasterxml:jackson-databind:2.10.2:*:*:*:*:*](#) (Confidence:Highest) [suppress](#)
- [cpe:2.3:a:fasterxml:jackson-modules-java8:2.10.2:*:*:*:*:*](#) (Confidence:Low) [suppress](#)

Published Vulnerabilities

[CVE-2020-25649](#) [suppress](#)

A flaw was found in FasterXML Jackson Databind, where it did not have entity expansion secured properly. This flaw allows vulnerability to XML external entity (XXE) attacks. The highest threat from this vulnerability is data integrity.

CWE-611 Improper Restriction of XML External Entity Reference

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-25649\] CWE-611: Improper Restriction of XML External Entity Reference \('XXE'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-25649>
- OSSIndex - <https://github.com/FasterXML/jackson-databind/issues/2589>
- secalert@redhat.com - [ISSUE_TRACKING_THIRD_PARTY_ADVISORY](#)
- secalert@redhat.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- secalert@redhat.com - [PATCH_THIRD_PARTY_ADVISORY](#)
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- secalert@redhat.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- secalert@redhat.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions from \(including\) 2.10.0; versions up to \(excluding\) 2.10.5.1](#)
- ...

[CVE-2020-36518](#) [suppress](#)

jackson-databind before 2.13.0 allows a Java StackOverflow exception and denial of service via a large depth of nested objects.

CWE-787 Out-of-bounds Write

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-36518\] CWE-787: Out-of-bounds Write](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-36518>
- OSSIndex - <https://github.com/FasterXML/jackson-databind/issues/2816>
- cve@mitre.org - [EXPLOIT_MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [ISSUE_TRACKING_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)
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- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions up to \(excluding\) 2.12.6.1](#)
- ...

[CVE-2021-46877](#) [suppress](#)

jackson-databind 2.10.x through 2.12.x before 2.12.6 and 2.13.x before 2.13.1 allows attackers to cause a denial of service (2 GB transient heap usage per read) in uncommon situations involving JsonNode JDK serialization.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-46877\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <https://github.com/FasterXML/jackson-databind/issues/3328>
- cve@mitre.org - [EXPLOIT.ISSUE.TRACKING.VENDOR_ADVISORY](#)
- cve@mitre.org - [MAILING_LIST.RELEASE_NOTES](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions from \(including\) 2.10.0; versions up to \(excluding\) 2.12.6](#)
- ...

[CVE-2022-42003](#)

In FasterXML jackson-databind before versions 2.13.4.1 and 2.12.17.1, resource exhaustion can occur because of a lack of a check in primitive value deserializers to avoid deep wrapper array nesting, when the UNWRAP_SINGLE_VALUE_ARRAYS feature is enabled.

CWE-502 Deserialization of Untrusted Data

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-42003\] CWE-502: Deserialization of Untrusted Data](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-42003>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=51020>
- OSSIndex - <https://github.com/FasterXML/jackson-databind/issues/3590>
- cve@mitre.org - [EXPLOIT.ISSUE.TRACKING.MAILING_LIST.PATCH_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [EXPLOIT.ISSUE.TRACKING_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
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- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions up to \(excluding\) 2.12.7.1](#)
- ...

[CVE-2022-42004](#)

In FasterXML jackson-databind before 2.13.4, resource exhaustion can occur because of a lack of a check in BeanDeserializer._deserializeFromArray to prevent use of deeply nested arrays. An application is vulnerable only with certain customized choices for deserialization.

CWE-502 Deserialization of Untrusted Data

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-42004\] CWE-502: Deserialization of Untrusted Data](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-42004>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=50490>
- OSSIndex - <https://github.com/FasterXML/jackson-databind/issues/3582>
- cve@mitre.org - [EXPLOIT.ISSUE.TRACKING.MAILING_LIST.PATCH_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [EXPLOIT.ISSUE.TRACKING_THIRD_PARTY_ADVISORY](#)
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- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions up to \(excluding\) 2.12.7.1](#)
- ...

[CVE-2023-35116](#)

jackson-databind through 2.15.2 allows attackers to cause a denial of service or other unspecified impact via a crafted object that uses cyclic dependencies. NOTE: the vendor's perspective is that this is not a valid vulnerability report, because the steps of constructing a cyclic data structure and trying to serialize it cannot be achieved by an external attacker.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv3:

- Base Score: MEDIUM (4.7)
- Vector: CVSS:3.1/AV:L/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:H/E:1.0/RC:R/MAV:A

References:

- cve@mitre.org - [ISSUE_TRACKING](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:fasterxml:jackson-databind:*:*:*:*:* versions up to \(excluding\) 2.16.0](#)

Description:

Java port of Stefan Goessner JsonPath.

License:

The Apache Software License, Version 2.0: <http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\com\jayway\jsonpath\json-path\2.4.0\json-path-2.4.0.jar

MD5: 29169b4b1115bc851e5734ef35ecd42a

SHA1: 765a4401ceb2dc8d40553c2075eb80a8fa35c2ae

SHA256: 60441c74fb64e5a480070f86a604941927aaf684e2b513d780fb7a38fb4c5639

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-test@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/com.jayway.jsonpath/json-path@2.4.0](#) (Confidence:High)
- [cpe:2.3:a:json-path:json-path:2.4.0:*:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

CVE-2023-51074 (OSSINDEX) suppress

json-path v2.8.0 was discovered to contain a stack overflow via the Criteria.parse() method.

CWE-Other

CVSSv3:

- Base Score: MEDIUM (5.300000190734863)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L

References:

- OSSINDEX - [\[CVE-2023-51074\] CWE-Other](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-51074>
- OSSIndex - <https://github.com/json-path/JsonPath/issues/973>

Vulnerable Software & Versions (OSSINDEX):

- cpe:2.3:a:com.jayway.jsonpath:json-path:2.4.0:*:*:*:*:*

json-smart-2.3.jar

Description:

JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

License:

The Apache Software License, Version 2.0: <http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\net\minidev\json-smart\2.3\json-smart-2.3.jar

MD5: f2a921d4baaa7308de04eed4d8d72715

SHA1: 007396407491352ce4fa30de92efb158adb76b5b

SHA256: 903f48c8aa4c3f6426440b8d32de89fa1dc23b1169abde25e4e1d068aa67708b

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-test@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/net.minidev/json-smart@2.3](#) (Confidence:High)
- [cpe:2.3:a:json-smart_project:json-smart:2.3:*:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:json-smart_project:json-smart-v2:2.3:*:*:*:*:*](#) (Confidence:Low) suppress

Published Vulnerabilities

CVE-2021-31684 (OSSINDEX) suppress

A vulnerability was discovered in the indexOf function of JSONParserByteArray in JSON Smart versions 1.3 and 2.4 which causes a denial of service (DOS) via a crafted web request.

CWE-787 Out-of-bounds Write

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

References:

- OSSINDEX - [\[CVE-2021-31684\] CWE-787: Out-of-bounds Write](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-31684>
- OSSIndex - <https://github.com/netplex/json-smart-v1/issues/10>
- OSSIndex - <https://github.com/netplex/json-smart-v1/pull/11>
- OSSIndex - <https://github.com/netplex/json-smart-v2/issues/67>
- OSSIndex - <https://github.com/netplex/json-smart-v2/pull/68>

Vulnerable Software & Versions (OSSINDEX):

- cpe:2.3:a:net.minidev:json-smart:2.3:*:*:*:*:*

CVE-2023-1370 suppress

[Json-smart](https://netplex.github.io/json-smart/) is a performance focused, JSON processor lib.

When reaching a '[' or '{' character in the JSON input, the code parses an array or an object respectively.

It was discovered that the code does not have any limit to the nesting of such arrays or objects. Since the parsing of nested arrays and objects is done recursively, nesting too many of them can cause a stack exhaustion (stack overflow) and crash the software.

CWE-674 Uncontrolled Recursion

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-1370\] CWE-674: Uncontrolled Recursion](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-1370>
- OSSIndex - <https://ubuntu.com/security/CVE-2023-1370>
- reefs@jfrog.com - [EXPLOIT_THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:json-smart_project:json-smart:*:*:*:*:* versions up to \(excluding\) 2.4.9](#)

CVE-2021-27568 suppress

An issue was discovered in netplex json-smart-v1 through 2015-10-23 and json-smart-v2 through 2.4. An exception is thrown from a function, but it is not caught, as demonstrated by NumberFormatException. When it is not caught, it may cause programs using the library to crash or expose sensitive information.

CWE-754 Improper Check for Unusual or Exceptional Conditions

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (5.9)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H/E:2.2/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-27568\] CWE-754: Improper Check for Unusual or Exceptional Conditions](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-27568>
- OSSIndex - <https://github.com/netplex/json-smart-v1/issues/7>
- OSSIndex - <https://github.com/netplex/json-smart-v1/pull/8>
- OSSIndex - <https://github.com/netplex/json-smart-v2/issues/60>
- OSSIndex - <https://github.com/netplex/json-smart-v2/pull/61>
- cve@mitre.org - [EXPLOIT_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [EXPLOIT_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [PATCH_THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:json-smart_project:json-smart-v2:*:*:*:*:* versions up to \(excluding\) 2.3.1](#)
- ...

log4j-api-2.12.1.jar

Description:

The Apache Log4j API

License:

<https://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\org\apache\logging\log4j\log4j-api\2.12.1\log4j-api-2.12.1.jar
MD5: 4a6f276d4fb426c8d489343c0325bb75
SHA1: a55e6d987f50a515c9260b0451b4fa217dc539cb
SHA256: 429534d03bdb728879ab551d469e26f6ff7f4c8a8627f59ac68ab6ef26063515
Referenced In Project/Scope: ssl-server:compile
Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.apache.logging.log4j/log4j-api@2.12.1](#) (Confidence:High)
- [cpe:2.3:a:apache:log4j:2.12.1:*:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2020-9488](#) suppress

Improper validation of certificate with host mismatch in Apache Log4j SMTP appender. This could allow an SMTPS connection to be intercepted by a man-in-the-middle attack which could leak any log messages sent through that appender. Fixed in Apache Log4j 2.12.3 and 2.13.1

CWE-295 Improper Certificate Validation

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: LOW (3.7)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [ISSUE_TRACKING MITIGATION PATCH VENDOR ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:log4j:*:*:*:*:* versions from \(including\) 2.4; versions up to \(excluding\) 2.12.3](#)
- ...

logback-core-1.2.3.jar

Description:

logback-core module

License:

<http://www.eclipse.org/legal/epl-v10.html>, <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>

File Path: C:\Users\Alex\.m2\repository\ch\qos\logback\logback-core\1.2.3\logback-core-1.2.3.jar
MD5: 841fc80c6edff60d947a3872a2db4d45
SHA1: 864344400c3d4d92dfef0a305dc87d953677c03c
SHA256: 5946d837fe6f960c02a53eda7a6926ecc3c758bdd69aa453ee429f858217f22
Referenced In Project/Scope: ssl-server:compile
Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Related Dependencies

Identifiers

- [pkg:maven/ch.qos.logback/logback-core@1.2.3](#) (Confidence:High)
- [cpe:2.3:a:qos:logback:1.2.3:*:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2023-6378](#) suppress

A serialization vulnerability in logback receiver component part of logback version 1.4.11 allows an attacker to mount a Denial-Of-Service attack by sending poisoned data.

CWE-502 Deserialization of Untrusted Data

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-6378\] CWE-502: Deserialization of Untrusted Data](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-6378>
- OSSIndex - <https://github.com/advisories/GHSA-vmq6-5m68-f53m>
- OSSIndex - <https://logback.qos.ch/news.html#1.3.12>
- vulnerability@ncsc.ch - [RELEASE NOTES](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:qos:logback:*:*:*:*:* versions from \(including\) 1.2.0: versions up to \(excluding\) 1.2.13](#)
- ...

[CVE-2021-42550](#) suppress

In logback version 1.2.7 and prior versions, an attacker with the required privileges to edit configurations files could craft a malicious configuration allowing to execute arbitrary code loaded from LDAP servers.

CWE-502 Deserialization of Untrusted Data

CVSSv2:

- Base Score: HIGH (8.5)
- Vector: /AV:N/AC:M/Au:S/C:C/I:C/A:C

CVSSv3:

- Base Score: MEDIUM (6.6)
- Vector: CVSS:3.1/AV:N/AC:H/PR:H/UI:N/S:U/C:H/I:H/A:H/E:0.7/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-42550\] CWE-502: Deserialization of Untrusted Data](#)
- OSSIndex - <https://jira.qos.ch/browse/LOGBACK-1591>
- vulnerability@ncsc.ch - [EXPLOIT,ISSUE TRACKING PATCH,THIRD PARTY ADVISORY](#)
- vulnerability@ncsc.ch - [EXPLOIT,THIRD PARTY ADVISORY](#)
- vulnerability@ncsc.ch - [EXPLOIT,THIRD PARTY ADVISORY,VDB ENTRY](#)
- vulnerability@ncsc.ch - [MAILING LIST,THIRD PARTY ADVISORY](#)
- vulnerability@ncsc.ch - [THIRD PARTY ADVISORY](#)
- vulnerability@ncsc.ch - [THIRD PARTY ADVISORY](#)
- vulnerability@ncsc.ch - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:qos:logback:*:*:*:*:* versions up to \(including\) 1.2.7](#)
- ...

snakeyaml-1.25.jar

Description:

YAML 1.1 parser and emitter for Java

License:

Apache License, Version 2.0: <http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\org\yaml\snakeyaml\1.25\snakeyaml-1.25.jar

MD5: 6f7d5b8f596047aae07a3bf6f23a0bf2

SHA1: 8b6e01ef661d8378ae6dd7b511a7f2a33fae1421

SHA256: b50ef33187e7dc922b26dbe4dd0fdb3a9cf349e75a08b95269901548eee546eb

Referenced In Project/Scope: ssl-server:runtime

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.yaml/snakeyaml@1.25](#) (Confidence:High)
- [cpe:2.3:a:snakeyaml_project:snakeyaml:1.25:*:*:*:*:](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2022-1471](#) suppress

SnakeYaml's Constructor() class does not restrict types which can be instantiated during deserialization. Deserializing yaml content provided by an attacker can lead to remote code execution. We recommend using SnakeYaml's SafeConstructor when parsing untrusted content to restrict deserialization. We recommend upgrading to version 2.0 and beyond.

CWE-502 Deserialization of Untrusted Data, CWE-20 Improper Input Validation

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-1471\] CWE-20: Improper Input Validation](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-1471>
- OSSIndex - <https://github.com/google/security-research/security/advisories/GHSA-mjmj-j48g-9wg2>
- cve-coordination@google.com - [EXPLOIT,THIRD_PARTY_ADVISORY](#)
- cve-coordination@google.com - [EXPLOIT,THIRD_PARTY_ADVISORY](#)
- cve-coordination@google.com - [EXPLOIT,THIRD_PARTY_ADVISORY](#)
- cve-coordination@google.com - [ISSUE_TRACKING,THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml:project:snakeyaml:*:*:*:*:* versions up to \(excluding\) 2.0](#)

[CVE-2017-18640](#) suppress

The Alias feature in SnakeYAML before 1.26 allows entity expansion during a load operation, a related issue to CVE-2003-1564.

CWE-776 Improper Restriction of Recursive Entity References in DTDs ('XML Entity Expansion')

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2017-18640\] CWE-776: Improper Restriction of Recursive Entity References in DTDs \('XML Entity Expansion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-18640>
- OSSIndex - <https://bitbucket.org/asomov/snakeyaml/issues/377/allow-configuration-for-preventing-billion>
- cve@mitre.org - [EXPLOIT,ISSUE_TRACKING,PATCH,THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [EXPLOIT,ISSUE_TRACKING,THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [PATCH,THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [RELEASE_NOTES,THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)
- cve@mitre.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:snakeyaml:project:snakeyaml:*:*:*:*:* versions up to \(excluding\) 1.26](#)
- ...

[CVE-2022-25857](#) suppress

The package org.yaml:snakeyaml from 0 and before 1.31 are vulnerable to Denial of Service (DoS) due missing to nested depth limitation for collections.

CWE-776 Improper Restriction of Recursive Entity References in DTDs ('XML Entity Expansion')

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-25857\] CWE-776: Improper Restriction of Recursive Entity References in DTDs \('XML Entity Expansion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-25857>
- OSSIndex - <https://bitbucket.org/snakeyaml/snakeyaml/issues/525>
- report@snyk.io - [EXPLOIT,ISSUE_TRACKING,THIRD_PARTY_ADVISORY](#)
- report@snyk.io - [EXPLOIT,PATCH,THIRD_PARTY_ADVISORY](#)
- report@snyk.io - [MAILING_LIST,THIRD_PARTY_ADVISORY](#)
- report@snyk.io - [PATCH,THIRD_PARTY_ADVISORY](#)
- report@snyk.io - [PATCH,THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml:project:snakeyaml:*:*:*:*:* versions up to \(excluding\) 1.31](#)

[CVE-2022-38749](#) suppress

Using snakeYAML to parse untrusted YAML files may be vulnerable to Denial of Service attacks (DOS). If the parser is running on user supplied input, an attacker may supply content that causes the parser to crash by stackoverflow.

CWE-787 Out-of-bounds Write, CWE-121 Stack-based Buffer Overflow

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-38749\] CWE-121: Stack-based Buffer Overflow](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-38749>

- OSSIndex - <https://bitbucket.org/snakeyaml/snakeyaml/issues/525>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=47024>
- cve-coordination@google.com - [MAILING LIST,THIRD PARTY ADVISORY](#)
- cve-coordination@google.com - [THIRD PARTY ADVISORY](#)
- cve-coordination@google.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml_project:snakeyaml:*.*.*.*.* versions up to \(excluding\) 1.31](#)

[CVE-2022-38751](#)

Using snakeYAML to parse untrusted YAML files may be vulnerable to Denial of Service attacks (DOS). If the parser is running on user supplied input, an attacker may supply content that causes the parser to crash by stackoverflow.

CWE-787 Out-of-bounds Write, CWE-121 Stack-based Buffer Overflow

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-38751\] CWE-121: Stack-based Buffer Overflow](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-38751>
- OSSIndex - <https://bitbucket.org/snakeyaml/snakeyaml/issues/530/stackoverflow-oss-fuzz-47039>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=47039>
- cve-coordination@google.com - [MAILING LIST,THIRD PARTY ADVISORY](#)
- cve-coordination@google.com - [THIRD PARTY ADVISORY](#)
- cve-coordination@google.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml_project:snakeyaml:*.*.*.*.* versions up to \(excluding\) 1.31](#)

[CVE-2022-38752](#)

Using snakeYAML to parse untrusted YAML files may be vulnerable to Denial of Service attacks (DOS). If the parser is running on user supplied input, an attacker may supply content that causes the parser to crash by stack-overflow.

CWE-787 Out-of-bounds Write, CWE-121 Stack-based Buffer Overflow

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-38752\] CWE-121: Stack-based Buffer Overflow](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-38752>
- OSSIndex - <https://bitbucket.org/snakeyaml/snakeyaml/issues/531/stackoverflow-oss-fuzz-47081>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=47081>
- OSSIndex - <https://github.com/advisories/GHSA-9w3m-gggf-c4p9>
- cve-coordination@google.com - [PERMISSIONS REQUIRED](#)
- cve-coordination@google.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml_project:snakeyaml:*.*.*.*.* versions up to \(excluding\) 1.32](#)

[CVE-2022-41854](#)

Those using Snakeyaml to parse untrusted YAML files may be vulnerable to Denial of Service attacks (DOS). If the parser is running on user supplied input, an attacker may supply content that causes the parser to crash by stack overflow. This effect may support a denial of service attack.

CWE-787 Out-of-bounds Write, CWE-121 Stack-based Buffer Overflow

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-41854\] CWE-121: Stack-based Buffer Overflow](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-41854>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=50355>
- cve-coordination@google.com - [EXPLOIT,ISSUE TRACKING,THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:snakeyaml_project:snakeyaml:*.*.*.*.* versions up to \(excluding\) 1.32](#)

[CVE-2022-38750](#)

Using snakeYAML to parse untrusted YAML files may be vulnerable to Denial of Service attacks (DOS). If the parser is running on user supplied input, an attacker may supply content that causes the parser to crash by stackoverflow.

CWE-787 Out-of-bounds Write, CWE-121 Stack-based Buffer Overflow

CVSSv3:

- Base Score: MEDIUM (5.5)
- Vector: CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:H/E:1.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-38750\] CWE-121: Stack-based Buffer Overflow](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-38750>
- OSSIndex - <https://bitbucket.org/snakeyaml/snakeyaml/issues/526/stackoverflow-oss-fuzz-47027>
- OSSIndex - <https://bugs.chromium.org/p/oss-fuzz/issues/detail?id=47027>
- cve-coordination@google.com - [EXPLOIT,ISSUE TRACKING,MAILING LIST,THIRD PARTY ADVISORY](#)
- cve-coordination@google.com - [EXPLOIT,ISSUE TRACKING,THIRD PARTY ADVISORY](#)

- cpe:2.3:a:snakeyaml_project:snakeyaml:*:*:*:*:* versions up to (excluding) 1.31

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

- [cpe:2.3:a:vmware:spring_boot:***** versions up to \(excluding\) 2.2.11](#)

CVE-2023-20883 suppress

In Spring Boot versions 3.0.0 - 3.0.6, 2.7.0 - 2.7.11, 2.6.0 - 2.6.14, 2.5.0 - 2.5.14 and older unsupported versions, there is potential for a denial-of-service (DoS) attack if Spring MVC is used together with a reverse proxy cache.

CWE-400 Uncontrolled Resource Consumption

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20883\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20883>
- OSSIndex - <https://github.com/spring-projects/spring-boot/issues/35552>
- OSSIndex - <https://spring.io/security/cve-2023-20883>
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_boot:*:*:*:*:* versions up to \(excluding\) 2.5.14](#)
- ...

spring-boot-starter-web-2.2.4.RELEASE.jar

Description:

Starter for building web, including RESTful, applications using Spring MVC. Uses Tomcat as the default embedded container

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\.m2\repository\org\springframework\boot\spring-boot-starter-web\2.2.4.RELEASE\spring-boot-starter-web-2.2.4.RELEASE.jar

MD5: 0fd2927b6235bdbaa0d4d12c28a847c2

SHA1: ec75d01d212b5229c16d872fb127744c0ed46ed8

SHA256: eb4d4ad19fe1724fd02cfce9c467c0b67766b5a4a54d0e54fc51826d9e3d87b8

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/com.snhu/ssl-server@0.0.1-SNAPSHOT

Evidence

Related Dependencies

Identifiers

- [pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:vmware:spring_boot:2.2.4:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:web_project:web:2.2.4:release:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

CVE-2023-20873 suppress

In Spring Boot versions 3.0.0 - 3.0.5, 2.7.0 - 2.7.10, and older unsupported versions, an application that is deployed to Cloud Foundry could be susceptible to a security bypass. Users of affected versions should apply the following mitigation: 3.0.x users should upgrade to 3.0.6+. 2.7.x users should upgrade to 2.7.11+. Users of older, unsupported versions should upgrade to 3.0.6+ or 2.7.11+.

NVD-CWE-noinfo

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_boot:*:*:*:*:* versions up to \(excluding\) 2.5.15](#)
- ...

CVE-2022-27772 suppress

spring-boot versions prior to version v2.2.11.RELEASE was vulnerable to temporary directory hijacking. This vulnerability impacted the org.springframework.boot.web.server.AbstractConfigurableWebServerFactory.createTempDir method. NOTE: This vulnerability only affects products and/or versions that are no longer supported by the maintainer

CWE-668 Exposure of Resource to Wrong Sphere

CVSSv2:

- Base Score: MEDIUM (4.6)
- Vector: /AV:L/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- cve@mitre.org - [EXPLOIT.PATCH.THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:vmware:spring_boot:**** versions up to \(excluding\) 2.2.11](#)

[CVE-2023-20883](#) suppress

In Spring Boot versions 3.0.0 - 3.0.6, 2.7.0 - 2.7.11, 2.6.0 - 2.6.14, 2.5.0 - 2.5.14 and older unsupported versions, there is potential for a denial-of-service (DoS) attack if Spring MVC is used together with a reverse proxy cache.

CWE-400 Uncontrolled Resource Consumption

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_boot:**** versions up to \(excluding\) 2.5.14](#)
- ...

spring-core-5.2.3.RELEASE.jar

Description:

Spring Core

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\.m2\repository\org\springframework\spring-core\5.2.3.RELEASE\spring-core-5.2.3.RELEASE.jar

MD5: ae11e44d9eff630186b9e095e70b59de

SHA1: 3734223040040e8c3fec5faa3ae8a1ed6da146b

SHA256: 6df908f4deaeefd2b03b56a00246cc0dc0d941d9636e811025bc6fc5a2a44851

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-test@2.2.4.RELEASE

Evidence

Related Dependencies

Identifiers

- [pkg:maven/org.springframework/spring-core@5.2.3.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:****](#) (Confidence:Highest) suppress
- [cpe:2.3:a:springsource:spring_framework:5.2.3:release:****](#) (Confidence:Highest) suppress
- [cpe:2.3:a:vmware:spring_framework:5.2.3:release:****](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2022-22965](#) suppress

CISA Known Exploited Vulnerability:

- Product: VMware Spring Framework
- Name: Spring Framework JDK 9+ Remote Code Execution Vulnerability
- Date Added: 2022-04-04
- Description: Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding.
- Required Action: Apply updates per vendor instructions.
- Due Date: 2022-04-25
- Notes: <https://nvd.nist.gov/vuln/detail/CVE-2022-22965>

A Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding. The specific exploit requires the application to run on Tomcat as a WAR deployment. If the application is deployed as a Spring Boot executable jar, i.e. the default, it is not vulnerable to the exploit. However, the nature of the vulnerability is more general, and there may be other ways to exploit it.

CWE-94 Improper Control of Generation of Code ('Code Injection')

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22965\] CWE-94: Improper Control of Generation of Code \('Code Injection'\)](#)
- OSSIndex - http://web.archive.org/web/20220330064100/https://twitter.com/shyest_sys/status/1509053689331335174
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22965>
- OSSIndex - <https://blog.sonatype.com/new-0-day-spring-framework-vulnerability-confirmed-patch-now>
- OSSIndex - <https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement>
- OSSIndex - <https://www.praetorian.com/blog/spring-core-jdk9-rce/>
- OSSIndex - <https://www.rapid7.com/blog/post/2022/03/30/spring4shell-zero-day-vulnerability-in-spring-framework/>
- security@vmware.com - [EXPLOIT_THIRD_PARTY_ADVISORY.VDB_ENTRY](#)
- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY.VDB_ENTRY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2021-22118](#) [suppress](#)

In Spring Framework, versions 5.2.x prior to 5.2.15 and versions 5.3.x prior to 5.3.7, a WebFlux application is vulnerable to a privilege escalation: by (re)creating the temporary storage directory, a locally authenticated malicious user can read or modify files that have been uploaded to the WebFlux application, or overwrite arbitrary files with multipart request data.

CWE-269 Improper Privilege Management, CWE-668 Exposure of Resource to Wrong Sphere

CVSSv2:

- Base Score: MEDIUM (4.6)
- Vector: /AV:L/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22118\] CWE-269: Improper Privilege Management](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22118>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/26931>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22118>
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(excluding\) 5.2.15](#)
- ...

[CVE-2020-5421](#) [suppress](#)

In Spring Framework versions 5.2.0 - 5.2.8, 5.1.0 - 5.1.17, 5.0.0 - 5.0.18, 4.3.0 - 4.3.28, and older unsupported versions, the protections against RFD attacks from CVE-2015-5211 may be bypassed depending on the browser used through the use of a jsessionid path parameter.

NVD-CWE-noinfo

CVSSv2:

- Base Score: LOW (3.6)
- Vector: /AV:N/AC:H/Au:S/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:R/S:C/L:I/H:A/N/E:1.3/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-5421\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-5421>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2020-5421>
- security@pivotal.io - [NOT_APPLICABLE_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [THIRD_PARTY_ADVISORY](#)
- security@pivotal.io - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(excluding\) 5.2.9](#)
- ...

[CVE-2022-22950](#) suppress

In Spring Framework versions 5.3.0 - 5.3.16 and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial of service condition.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22950\] CWE-770: Allocation of Resources Without Limits or Throttling](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22950>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28145>
- OSSIndex - <https://spring.io/blog/2022/03/17/spring-framework-6-0-0-m3-and-5-3-17-available-now>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22950>
- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2022-22971](#) suppress

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, application with a STOMP over WebSocket endpoint is vulnerable to a denial of service attack by an authenticated user.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.21](#)
- ...

[CVE-2023-20861](#) suppress

In Spring Framework versions 6.0.0 - 6.0.6, 5.3.0 - 5.3.25, 5.2.0.RELEASE - 5.2.22.RELEASE, and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

NVD-CWE-noinfo

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20861\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20861>
- OSSIndex - <https://spring.io/blog/2023/03/20/spring-framework-5-2-23-fixes-cve-2023-20861>
- OSSIndex - <https://spring.io/security/cve-2023-20861>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.22](#)
- ...

[CVE-2023-20863](#) suppress

In spring framework versions prior to 5.2.24 release+ ,5.3.27+ and 6.0.8+ , it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

CWE-400 Uncontrolled Resource Consumption, CWE-917 Improper Neutralization of Special Elements used in an Expression Language Statement ('Expression Language Injection')

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20863\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20863>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/30325>
- OSSIndex - <https://spring.io/security/cve-2023-20863>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(excluding\) 5.2.24](#)

• ...

[CVE-2022-22968](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.18, 5.2.0 - 5.2.20, and older unsupported versions, the patterns for disallowedFields on a DataBinder are case sensitive which means a field is not effectively protected unless it is listed with both upper and lower case for the first character of the field, including upper and lower case for the first character of all nested fields within the property path.

CWE-178 Improper Handling of Case Sensitivity

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22968\] CWE-178: Improper Handling of Case Sensitivity](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22968>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28333>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28334>
- OSSIndex - <https://spring.io/blog/2022/04/13/spring-framework-data-binding-rules-vulnerability-cve-2022-22968>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22968>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.20](#)
- ...

[CVE-2022-22970](#) [suppress](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, applications that handle file uploads are vulnerable to DoS attack if they rely on data binding to set a MultipartFile or javax.servlet.Part to a field in a model object.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: LOW (3.5)
- Vector: /AV:N/AC:M/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:H/E:1.6/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.21](#)
- ...

[CVE-2021-22060](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.13, 5.2.0 - 5.2.18, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries. This is a follow-up to CVE-2021-22096 that protects against additional types of input and in more places of the Spring Framework codebase.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22060\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22060>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22060>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.18](#)
- ...

[CVE-2021-22096](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.10, 5.2.0 - 5.2.17, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries.

CWE-117 Improper Output Neutralization for Logs, NVD-CWE-Other

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)

- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22096\] CWE-117: Improper Output Neutralization for Logs](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22096>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22096>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.17](#)
- ...

spring-data-rest-webmvc-3.2.4.RELEASE.jar

Description:

Spring Data REST - WebMVC

File Path: C:\Users\Alex\m2\repository\org\springframework\data\spring-data-rest-webmvc\3.2.4.RELEASE\spring-data-rest-webmvc-3.2.4.RELEASE.jar

MD5: da22f3d4eb417e9e0a7ae9a73961c4f0

SHA1: acaae431117245ed5f1d09166207b076bbe3ac82

SHA256: 7694c509ffa7229d45630d2ee68525588f80d2740deef7642696f1440043d1

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-data-rest@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.springframework.data/spring-data-rest-webmvc@3.2.4.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:pivotal_software:spring_data_rest:3.2.4:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:vmware:spring_data_rest:3.2.4:release:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

CVE-2021-22047 (OSSINDEX) suppress

In Spring Data REST versions 3.4.0 - 3.4.13, 3.5.0 - 3.5.5, and older unsupported versions, HTTP resources implemented by custom controllers using a configured base API path and a controller type-level request mapping are additionally exposed under URLs that can potentially be exposed for unauthorized access depending on the Spring Security configuration.

CWE-668 Exposure of Resource to Wrong Sphere

CVSSv3:

- Base Score: MEDIUM (5.300000190734863)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

References:

- OSSINDEX - [\[CVE-2021-22047\] CWE-668: Exposure of Resource to Wrong Sphere](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22047>
- OSSIndex - <https://github.com/spring-projects/spring-data-rest/issues/1342>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22047>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework.data:spring-data-rest-webmvc:3.2.4.RELEASE:*:*:*:*](#)

CVE-2022-31679 (OSSINDEX) suppress

Applications that allow HTTP PATCH access to resources exposed by Spring Data REST in versions 3.6.0 - 3.5.5, 3.7.0 - 3.7.2, and older unsupported versions, if an attacker knows about the structure of the underlying domain model, they can craft HTTP requests that expose hidden entity attributes.

CWE-noinfo

CVSSv3:

- Base Score: LOW (3.700000047683716)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N

References:

- OSSINDEX - [\[CVE-2022-31679\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-31679>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-31679>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework.data:spring-data-rest-webmvc:3.2.4.RELEASE:*:*:*:*](#)

spring-expression-5.2.3.RELEASE.jar

Description:

Spring Expression Language (SpEL)

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\m2\repository\org\springframework\spring-expression\5.2.3.RELEASE\spring-expression-5.2.3.RELEASE.jar

MD5: f2d2fe0e4f9b9b23b03d07839393de5a

SHA1: d0c6bb10758805b2153c589686b8045554bfac2d

SHA256: 1ba798e1f4da9e5ad68e67d7e7abe39f141674762c8755d952edeb0380d384b9

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.springframework/spring-expression@5.2.3.RELEASE](https://pkg.maven.org/springframework/spring-expression@5.2.3.RELEASE) (Confidence:High)
- [cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:springsource:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:vmware:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2022-22965](#) suppress

CISA Known Exploited Vulnerability:

- Product: VMware Spring Framework
- Name: Spring Framework JDK 9+ Remote Code Execution Vulnerability
- Date Added: 2022-04-04
- Description: Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding.
- Required Action: Apply updates per vendor instructions.
- Due Date: 2022-04-25
- Notes: <https://nvd.nist.gov/vuln/detail/CVE-2022-22965>

A Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding. The specific exploit requires the application to run on Tomcat as a WAR deployment. If the application is deployed as a Spring Boot executable jar, i.e. the default, it is not vulnerable to the exploit. However, the nature of the vulnerability is more general, and there may be other ways to exploit it.

CWE-94 Improper Control of Generation of Code ('Code Injection')

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22965\] CWE-94: Improper Control of Generation of Code \('Code Injection'\)](#)
- OSSIndex - http://web.archive.org/web/20220330064100/https://twitter.com/shyest_sys/status/1509053689331335174
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22965>
- OSSIndex - <https://blog.sonatype.com/new-0-day-spring-framework-vulnerability-confirmed-patch-now>
- OSSIndex - <https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement>
- OSSIndex - <https://www.praetorian.com/blog/spring-core-jdk9-rce/>
- OSSIndex - <https://www.rapid7.com/blog/post/2022/03/30/spring4shell-zero-day-vulnerability-in-spring-framework/>
- security@vmware.com - [EXPLOIT_THIRD_PARTY_ADVISORY.VDB_ENTRY](#)
- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY.VDB_ENTRY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2021-22118](#) suppress

In Spring Framework, versions 5.2.x prior to 5.2.15 and versions 5.3.x prior to 5.3.7, a WebFlux application is vulnerable to a privilege escalation: by (re)creating the temporary storage directory, a locally authenticated malicious user can read or modify files that have been uploaded to the WebFlux application, or overwrite arbitrary files with multipart request data.

CWE-269 Improper Privilege Management, CWE-668 Exposure of Resource to Wrong Sphere

CVSSv2:

- Base Score: MEDIUM (4.6)
- Vector: /AV:L/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22118\] CWE-269: Improper Privilege Management](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22118>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/26931>
- OSSIndex - <https://tanu.vmware.com/security/cve-2021-22118>
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.15](#)
- ...

[CVE-2020-5421](#) [suppress](#)

In Spring Framework versions 5.2.0 - 5.2.8, 5.1.0 - 5.1.17, 5.0.0 - 5.0.18, 4.3.0 - 4.3.28, and older unsupported versions, the protections against RFD attacks from CVE-2015-5211 may be bypassed depending on the browser used through the use of a jsessionid path parameter.

NVD-CWE-noinfo

CVSSv2:

- Base Score: LOW (3.6)
- Vector: /AV:N/AC:H/Au:S/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:R/S:C/C:L/I:H/A:N/E:1.3/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-5421\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-5421>
- OSSIndex - <https://tanu.vmware.com/security/cve-2020-5421>
- security@pivotal.io - [NOT APPLICABLE THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [THIRD PARTY ADVISORY](#)
- security@pivotal.io - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.9](#)
- ...

[CVE-2022-22950](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.16 and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial of service condition.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22950\] CWE-770: Allocation of Resources Without Limits or Throttling](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22950>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28145>
- OSSIndex - <https://spring.io/blog/2022/03/17/spring-framework-6-0-0-m3-and-5-3-17-available-now>
- OSSIndex - <https://tanu.vmware.com/security/cve-2022-22950>
- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2022-22971](#) [suppress](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, application with a STOMP over WebSocket endpoint is vulnerable to a denial of service attack by an authenticated user.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.21](#)
- ...

[CVE-2023-20861](#)

In Spring Framework versions 6.0.0 - 6.0.6, 5.3.0 - 5.3.25, 5.2.0.RELEASE - 5.2.22.RELEASE, and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

NVD-CWE-noinfo

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20861\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20861>
- OSSIndex - <https://spring.io/blog/2023/03/20/spring-framework-5-2-23-fixes-cve-2023-20861>
- OSSIndex - <https://spring.io/security/cve-2023-20861>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.22](#)
- ...

[CVE-2023-20863](#)

In spring framework versions prior to 5.2.24 release+ ,5.3.27+ and 6.0.8+ , it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

CWE-400 Uncontrolled Resource Consumption, CWE-917 Improper Neutralization of Special Elements used in an Expression Language Statement ('Expression Language Injection')

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20863\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20863>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/30325>
- OSSIndex - <https://spring.io/security/cve-2023-20863>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.24](#)
- ...

[CVE-2024-38808](#) (OSSINDEX)

In Spring Framework versions 5.3.0 - 5.3.38 and older unsupported versions, it is possible for a user to provide a specially crafted Spring Expression Language (SpEL) expression that may cause a denial of service (DoS) condition.

Specifically, an application is vulnerable when the following is true:

- * The application evaluates user-supplied SpEL expressions.

Sonatype's research suggests that this CVE's details differ from those defined at NVD. See <https://ossindex.sonatype.org/vulnerability/CVE-2024-38808> for details

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (5.300000190734863)
- Vector: CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:P/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N

References:

- OSSINDEX - [\[CVE-2024-38808\] CWE-770: Allocation of Resources Without Limits or Throttling](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2024-38808>
- OSSIndex - <https://spring.io/security/cve-2024-38808>

Vulnerable Software & Versions (OSSINDEX):

- cpe:2.3:a:org.springframework:spring-expression:5.2.3.RELEASE:*:*:*:*:

[CVE-2022-22968](#)

In Spring Framework versions 5.3.0 - 5.3.18, 5.2.0 - 5.2.20, and older unsupported versions, the patterns for disallowedFields on a DataBinder are case sensitive which means a field is not effectively protected unless it is listed with both upper and lower case for the first character of the field, including upper and lower case for the first character of all nested fields within the property path.

CWE-178 Improper Handling of Case Sensitivity

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22968\] CWE-178: Improper Handling of Case Sensitivity](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22968>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28333>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28334>
- OSSIndex - <https://spring.io/blog/2022/04/13/spring-framework-data-binding-rules-vulnerability-cve-2022-22968>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22968>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.20](#)
- ...

[CVE-2022-22970](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, applications that handle file uploads are vulnerable to DoS attack if they rely on data binding to set a MultipartFile or javax.servlet.Part to a field in a model object.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: LOW (3.5)
- Vector: /AV:N/AC:M/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:H/E:1.6/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.21](#)
- ...

[CVE-2021-22060](#)

In Spring Framework versions 5.3.0 - 5.3.13, 5.2.0 - 5.2.18, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries. This is a follow-up to CVE-2021-22096 that protects against additional types of input and in more places of the Spring Framework codebase.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22060\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22060>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22060>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.18](#)
- ...

[CVE-2021-22096](#)

In Spring Framework versions 5.3.0 - 5.3.10, 5.2.0 - 5.2.17, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries.

CWE-117 Improper Output Neutralization for Logs, NVD-CWE-Other

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22096\] CWE-117: Improper Output Neutralization for Logs](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22096>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22096>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.17](#)

• ...

spring-hateoas-1.0.3.RELEASE.jar

Description:

Library to support implementing representations for hyper-text driven REST web services.

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\.m2\repository\org\springframework\hateoas\spring-hateoas\1.0.3.RELEASE\spring-hateoas-1.0.3.RELEASE.jar

MD5: efbda177ffbc4a8c7a693080528c9cd8

SHA1: 35c3514a8336d31f346f7b5c99de2f1ee32611ac

SHA256: 5a54edfd6ae2e6a85bd694682a358a0a55282f426623da59d47d879de3e1846d

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-data-rest@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.springframework.hateoas/spring-hateoas@1.0.3.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:vmware:spring_hateoas:1.0.3:release:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2023-34036](#) suppress

Reactive web applications that use Spring HATEOAS to produce hypermedia-based responses might be exposed to malicious forwarded headers if they are not behind a trusted proxy that ensures correctness of such headers, or if they don't have anything else in place to handle (and possibly discard) forwarded headers either in WebFlux or at the level of the underlying HTTP server.

For the application to be affected, it needs to satisfy the following requirements:

- * It needs to use the reactive web stack (Spring WebFlux) and Spring HATEOAS to create links in hypermedia-based responses.
- * The application infrastructure does not guard against clients submitting (X-)Forwarded... headers.

CWE-116 Improper Encoding or Escaping of Output, CWE-644 Improper Neutralization of HTTP Headers for Scripting Syntax

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-34036\] CWE-116: Improper Encoding or Escaping of Output](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-34036>
- OSSIndex - <https://github.com/advisories/GHSA-7m5c-fgwf-mwph>
- OSSIndex - <https://spring.io/security/cve-2023-34036>
- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_hateoas:*:*:*:*:* versions up to \(excluding\) 1.5.5](#)
- ...

spring-web-5.2.3.RELEASE.jar

Description:

Spring Web

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\.m2\repository\org\springframework\spring-web\5.2.3.RELEASE\spring-web-5.2.3.RELEASE.jar

MD5: a89d66690cd14159aa6ac1e875e54411

SHA1: dd386a02e40b915ab400a3bf9f586d2dc4c0852c

SHA256:25d264969c624cb8103a7f2b36b148ea1be8b87780c4758e7f9a6e2bc8416d76
Referenced In Project/Scope: ssl-server:compile
Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.springframework/spring-web@5.2.3.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:springsource:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:vmware:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress
- [cpe:2.3:a:web_project:web:5.2.3:release:*:*:*:*](#) (Confidence:Highest) suppress

Published Vulnerabilities

[CVE-2016-1000027](#) suppress

Pivotal Spring Framework through 5.3.16 suffers from a potential remote code execution (RCE) issue if used for Java deserialization of untrusted data. Depending on how the library is implemented within a product, this issue may or not occur, and authentication may be required. NOTE: the vendor's position is that untrusted data is not an intended use case. The product's behavior will not be changed because some users rely on deserialization of trusted data.

CWE-502 Deserialization of Untrusted Data

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2016-1000027\] CWE-502: Deserialization of Untrusted Data](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-1000027>
- OSSIndex - <https://blog.gypsyengineer.com/en/security/detecting-dangerous-spring-exporters-with-codeql.html>
- OSSIndex - https://bugzilla.redhat.com/show_bug.cgi?id=CVE-2016-1000027
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/24434>
- OSSIndex - <https://www.tenable.com/security/research/tra-2016-20>
- cve@mitre.org - [BROKEN LINK EXPLOIT THIRD PARTY ADVISORY](#)
- cve@mitre.org - [EXPLOIT THIRD PARTY ADVISORY](#)
- cve@mitre.org - [ISSUE TRACKING THIRD PARTY ADVISORY](#)
- cve@mitre.org - [ISSUE TRACKING THIRD PARTY ADVISORY](#)
- cve@mitre.org - [ISSUE TRACKING THIRD PARTY ADVISORY](#)
- cve@mitre.org - [ISSUE TRACKING THIRD PARTY ADVISORY](#)
- cve@mitre.org - [RELEASE NOTES THIRD PARTY ADVISORY](#)
- cve@mitre.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions:

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:*](#) versions up to (excluding) 6.0.0

[CVE-2022-22965](#) suppress

CISA Known Exploited Vulnerability:

- Product: VMware Spring Framework
- Name: Spring Framework JDK 9+ Remote Code Execution Vulnerability
- Date Added: 2022-04-04
- Description: Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding.
- Required Action: Apply updates per vendor instructions.
- Due Date: 2022-04-25
- Notes: <https://nvd.nist.gov/vuln/detail/CVE-2022-22965>

A Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding. The specific exploit requires the application to run on Tomcat as a WAR deployment. If the application is deployed as a Spring Boot executable jar, i.e. the default, it is not vulnerable to the exploit. However, the nature of the vulnerability is more general, and there may be other ways to exploit it.

CWE-94 Improper Control of Generation of Code ('Code Injection')

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22965\] CWE-94: Improper Control of Generation of Code \('Code Injection'\)](#)
- OSSIndex - http://web.archive.org/web/20220330064100/https://twitter.com/shyest_sys/status/1509053689331335174
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22965>
- OSSIndex - <https://blog.sonatype.com/new-0-day-spring-framework-vulnerability-confirmed-patch-now>
- OSSIndex - <https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement>
- OSSIndex - <https://www.praetorian.com/blog/spring-core-jdk9-rce/>
- OSSIndex - <https://www.rapid7.com/blog/post/2022/03/30/spring4shell-zero-day-vulnerability-in-spring-framework/>
- security@vmware.com - [EXPLOIT THIRD PARTY ADVISORY VDB ENTRY](#)
- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY,VDB ENTRY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

CVE-2024-38809 (OSSINDEX) [suppress](#)

Applications that parse ETags from "If-Match" or "If-None-Match" request headers are vulnerable to DoS attack.

Users of affected versions should upgrade to the corresponding fixed version.

Users of older, unsupported versions could enforce a size limit on "If-Match" and "If-None-Match" headers, e.g. through a Filter.

CWE-400 Uncontrolled Resource Consumption

CVSSv2:

- Base Score: HIGH (8.699999809265137)
- Vector: CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N

References:

- OSSINDEX - [\[CVE-2024-38809\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2024-38809>
- OSSIndex - <https://spring.io/security/cve-2024-38809>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework:spring-web:5.2.3.RELEASE:*:*:*:*](#)

CVE-2024-22243 (OSSINDEX) [suppress](#)

Applications that use UriComponentsBuilder to parse an externally provided URL (e.g. through a query parameter) AND perform validation checks on the host of the parsed URL may be vulnerable to a open redirect <https://cwe.mitre.org/data/definitions/601.html> attack or to a SSRF attack if the URL is used after passing validation checks.

Sonatype's research suggests that this CVE's details differ from those defined at NVD. See <https://ossindex.sonatype.org/vulnerability/CVE-2024-22243> for details

CWE-601 URL Redirection to Untrusted Site ('Open Redirect')

CVSSv3:

- Base Score: HIGH (8.100000381469727)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:N

References:

- OSSINDEX - [\[CVE-2024-22243\] CWE-601: URL Redirection to Untrusted Site \('Open Redirect'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2024-22243>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/32211>
- OSSIndex - <https://spring.io/security/cve-2024-22243>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework:spring-web:5.2.3.RELEASE:*:*:*:*](#)

CVE-2024-22262 (OSSINDEX) [suppress](#)

Applications that use UriComponentsBuilder to parse an externally provided URL (e.g. through a query parameter) AND perform validation checks on the host of the parsed URL may be vulnerable to a open redirect <https://cwe.mitre.org/data/definitions/601.html> attack or to a SSRF attack if the URL is used after passing validation checks.

This is the same as CVE-2024-22259 <https://spring.io/security/cve-2024-22259> and CVE-2024-22243 <https://spring.io/security/cve-2024-22243> , but with different input.

CWE-601 URL Redirection to Untrusted Site ('Open Redirect')

CVSSv3:

- Base Score: HIGH (8.100000381469727)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:N

References:

- OSSINDEX - [\[CVE-2024-22262\] CWE-601: URL Redirection to Untrusted Site \('Open Redirect'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2024-22262>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/32616>
- OSSIndex - <https://spring.io/security/cve-2024-22262>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework:spring-web:5.2.3.RELEASE:*:*:*:*](#)

CVE-2021-22118 [suppress](#)

In Spring Framework, versions 5.2.x prior to 5.2.15 and versions 5.3.x prior to 5.3.7, a WebFlux application is vulnerable to a privilege escalation: by (re)creating the temporary storage directory, a locally authenticated malicious user can read or modify files that have been uploaded to the WebFlux application, or overwrite arbitrary files with multipart request data.

CWE-269 Improper Privilege Management, CWE-668 Exposure of Resource to Wrong Sphere

CVSSv2:

- Base Score: MEDIUM (4.6)
- Vector: /AV:L/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22118\] CWE-269: Improper Privilege Management](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22118>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/26931>
- OSSIndex - <https://tanu.vmware.com/security/cve-2021-22118>
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.15](#)
- ...

[CVE-2020-5421](#)

In Spring Framework versions 5.2.0 - 5.2.8, 5.1.0 - 5.1.17, 5.0.0 - 5.0.18, 4.3.0 - 4.3.28, and older unsupported versions, the protections against RFD attacks from CVE-2015-5211 may be bypassed depending on the browser used through the use of a jsessionid path parameter.

NVD-CWE-noinfo

CVSSv2:

- Base Score: LOW (3.6)
- Vector: /AV:N/AC:H/Au:S/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:R/S:C/C:L/I:H/A:N/E:1.3/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-5421\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-5421>
- OSSIndex - <https://tanu.vmware.com/security/cve-2020-5421>
- security@pivotal.io - [NOT APPLICABLE THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [THIRD PARTY ADVISORY](#)
- security@pivotal.io - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.9](#)
- ...

[CVE-2022-22950](#)

In Spring Framework versions 5.3.0 - 5.3.16 and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial of service condition.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22950\] CWE-770: Allocation of Resources Without Limits or Throttling](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22950>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28145>
- OSSIndex - <https://spring.io/blog/2022/03/17/spring-framework-6-0-0-m3-and-5-3-17-available-now>
- OSSIndex - <https://tanu.vmware.com/security/cve-2022-22950>
- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2022-22971](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, application with a STOMP over WebSocket endpoint is vulnerable to a denial of service attack by an authenticated user.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.21](#)
- ...

[CVE-2023-20861](#) [suppress](#)

In Spring Framework versions 6.0.0 - 6.0.6, 5.3.0 - 5.3.25, 5.2.0.RELEASE - 5.2.22.RELEASE, and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

NVD-CWE-noinfo

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20861\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20861>
- OSSIndex - <https://spring.io/blog/2023/03/20/spring-framework-5-2-23-fixes-cve-2023-20861>
- OSSIndex - <https://spring.io/security/cve-2023-20861>
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.22](#)
- ...

[CVE-2023-20863](#) [suppress](#)

In spring framework versions prior to 5.2.24 release+ ,5.3.27+ and 6.0.8+ , it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

CWE-400 Uncontrolled Resource Consumption, CWE-917 Improper Neutralization of Special Elements used in an Expression Language Statement ('Expression Language Injection')

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20863\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20863>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/30325>
- OSSIndex - <https://spring.io/security/cve-2023-20863>
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.24](#)
- ...

[CVE-2022-22968](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.18, 5.2.0 - 5.2.20, and older unsupported versions, the patterns for disallowedFields on a DataBinder are case sensitive which means a field is not effectively protected unless it is listed with both upper and lower case for the first character of the field, including upper and lower case for the first character of all nested fields within the property path.

CWE-178 Improper Handling of Case Sensitivity

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22968\] CWE-178: Improper Handling of Case Sensitivity](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22968>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28333>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28334>
- OSSIndex - <https://spring.io/blog/2022/04/13/spring-framework-data-binding-rules-vulnerability-cve-2022-22968>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22968>
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.20](#)
- ...

[CVE-2022-22970](#) [suppress](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, applications that handle file uploads are vulnerable to DoS attack if they rely on data binding to set a MultipartFile or javax.servlet.Part to a field in a model object.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: LOW (3.5)
- Vector: /AV:N/AC:M/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:H/E:1.6/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.21](#)
- ...

[CVE-2021-22060](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.13, 5.2.0 - 5.2.18, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries. This is a follow-up to CVE-2021-22096 that protects against additional types of input and in more places of the Spring Framework codebase.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22060\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22060>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22060>
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.18](#)
- ...

[CVE-2021-22096](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.10, 5.2.0 - 5.2.17, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries.

CWE-117 Improper Output Neutralization for Logs, NVD-CWE-Other

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22096\] CWE-117: Improper Output Neutralization for Logs](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22096>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22096>
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.17](#)
- ...

spring-webmvc-5.2.3.RELEASE.jar

Description:

Spring Web MVC

License:

Apache License, Version 2.0: <https://www.apache.org/licenses/LICENSE-2.0>

File Path: C:\Users\Alex\.m2\repository\org\springframework\spring-webmvc\5.2.3.RELEASE\spring-webmvc-5.2.3.RELEASE.jar

MD5: 867cc7369d453637b5042ee4d6931a78

SHA1: 745a62502023d2496b565b7fe102bb1ee229d6b7

SHA256: b3b0a2477e67b050dd5c08dc96e76db5950cbccba075e782c24f73eda49a0160

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.springframework/spring-webmvc@5.2.3.RELEASE](#) (Confidence:High)
- [cpe:2.3:a:pivotal_software:spring_framework:5.2.3:release:*:*:*:*](#) (Confidence:Highest) [suppress](#)

- [cpe:2.3:a:springsource:spring_framework:5.2.3:release:*.~*.~*.~*.~* \(Confidence:High\)](#) suppress
- [cpe:2.3:a:vmware:spring_framework:5.2.3:release:*.~*.~*.~*.~* \(Confidence:High\)](#) suppress
- [cpe:2.3:a:web_project:web:5.2.3:release:*.~*.~*.~*.~* \(Confidence:High\)](#) suppress

Published Vulnerabilities

[CVE-2022-22965](#) suppress

CISA Known Exploited Vulnerability:

- Product: VMware Spring Framework
- Name: Spring Framework JDK 9+ Remote Code Execution Vulnerability
- Date Added: 2022-04-04
- Description: Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding.
- Required Action: Apply updates per vendor instructions.
- Due Date: 2022-04-25
- Notes: <https://nvd.nist.gov/vuln/detail/CVE-2022-22965>

A Spring MVC or Spring WebFlux application running on JDK 9+ may be vulnerable to remote code execution (RCE) via data binding. The specific exploit requires the application to run on Tomcat as a WAR deployment. If the application is deployed as a Spring Boot executable jar, i.e. the default, it is not vulnerable to the exploit. However, the nature of the vulnerability is more general, and there may be other ways to exploit it.

CWE-94 Improper Control of Generation of Code ('Code Injection')

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22965\] CWE-94: Improper Control of Generation of Code \('Code Injection'\)](#)
- OSSIndex - http://web.archive.org/web/20220330064100/https://twitter.com/shyest_sys/status/1509053689331335174
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22965>
- OSSIndex - <https://blog.sonatype.com/new-0-day-spring-framework-vulnerability-confirmed-patch-now>
- OSSIndex - <https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement>
- OSSIndex - <https://www.praetorian.com/blog/spring-core-jdk9-rce/>
- OSSIndex - <https://www.rapid7.com/blog/post/2022/03/30/spring4shell-zero-day-vulnerability-in-spring-framework/>
- security@vmware.com - [EXPLOIT,THIRD PARTY ADVISORY,VDB ENTRY](#)
- security@vmware.com - [MITIGATION,VENDOR ADVISORY](#)
- security@vmware.com - [PATCH,THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH,THIRD PARTY ADVISORY](#)
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- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY,VDB ENTRY](#)

Vulnerable Software & Versions: [\(show all\)](#)

- [cpe:2.3:a:vmware:spring_framework:*.~*.~*.~*.~* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2024-38816 \(OSSINDEX\)](#) suppress

Applications serving static resources through the functional web frameworks WebMvc.fn or WebFlux.fn are vulnerable to path traversal attacks. An attacker can craft malicious HTTP requests and obtain any file on the file system that is also accessible to the process in which the Spring application is running.

Specifically, an application is vulnerable when both of the following are true:

- * the web application uses RouterFunctions to serve static resources
- * resource handling is explicitly configured with a FileSystemResource location

However, malicious requests are blocked and rejected when any of the following is true:

- * the Spring Security HTTP Firewall <https://docs.spring.io/spring-security/reference/servlet/exploits/firewall.html> is in use
- * the application runs on Tomcat or Jetty

CWE-22 Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

CVSSv2:

- Base Score: HIGH (8.199999809265137)
- Vector: CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:H/VI:N/VA:N/SC:N/SI:N/SA:N

References:

- OSSINDEX - [\[CVE-2024-38816\] CWE-22: Improper Limitation of a Pathname to a Restricted Directory \('Path Traversal'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2024-38816>
- OSSIndex - <https://spring.io/security/cve-2024-38816>

Vulnerable Software & Versions (OSSINDEX):

- [cpe:2.3:a:org.springframework:spring-webmvc:5.2.3.RELEASE:*.~*.~*.~*.~*](#)

[CVE-2021-22118](#) suppress

In Spring Framework, versions 5.2.x prior to 5.2.15 and versions 5.3.x prior to 5.3.7, a WebFlux application is vulnerable to a privilege escalation: by (re)creating the temporary storage directory, a locally authenticated malicious user can read or modify files that have been uploaded to the WebFlux application, or overwrite arbitrary files with multipart request data.

CWE-269 Improper Privilege Management, CWE-668 Exposure of Resource to Wrong Sphere

CVSSv2:

- Base Score: MEDIUM (4.6)
- Vector: /AV:L/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22118\] CWE-269: Improper Privilege Management](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22118>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/26931>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22118>
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [PATCH THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)
- security@vmware.com - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.15](#)
- ...

[CVE-2020-5421](#)

In Spring Framework versions 5.2.0 - 5.2.8, 5.1.0 - 5.1.17, 5.0.0 - 5.0.18, 4.3.0 - 4.3.28, and older unsupported versions, the protections against RFD attacks from CVE-2015-5211 may be bypassed depending on the browser used through the use of a jsessionid path parameter.

NVD-CWE-noinfo

CVSSv2:

- Base Score: LOW (3.6)
- Vector: /AV:N/AC:H/Au:S/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:R/S:C/C:L/I:H/A:N/E:1.3/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2020-5421\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-5421>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2020-5421>
- security@pivotal.io - [NOT APPLICABLE THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [PATCH THIRD PARTY ADVISORY](#)
- security@pivotal.io - [THIRD PARTY ADVISORY](#)
- security@pivotal.io - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.9](#)
- ...

[CVE-2022-22950](#)

In Spring Framework versions 5.3.0 - 5.3.16 and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial of service condition.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22950\] CWE-770: Allocation of Resources Without Limits or Throttling](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22950>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28145>
- OSSIndex - <https://spring.io/blog/2022/03/17/spring-framework-6-0-0-m3-and-5-3-17-available-now>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22950>
- security@vmware.com - [MITIGATION VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(excluding\) 5.2.20](#)
- ...

[CVE-2022-22971](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, application with a STOMP over WebSocket endpoint is vulnerable to a denial of service attack by an authenticated user.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (6.5)

- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.21](#)
- ...

[CVE-2023-20861](#)

In Spring Framework versions 6.0.0 - 6.0.6, 5.3.0 - 5.3.25, 5.2.0.RELEASE - 5.2.22.RELEASE, and older unsupported versions, it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

NVD-CWE-noinfo

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20861\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20861>
- OSSIndex - <https://spring.io/blog/2023/03/20/spring-framework-5-2-23-fixes-cve-2023-20861>
- OSSIndex - <https://spring.io/security/cve-2023-20861>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.22](#)
- ...

[CVE-2023-20863](#)

In spring framework versions prior to 5.2.24 release+ ,5.3.27+ and 6.0.8+ , it is possible for a user to provide a specially crafted SpEL expression that may cause a denial-of-service (DoS) condition.

CWE-400 Uncontrolled Resource Consumption, CWE-917 Improper Neutralization of Special Elements used in an Expression Language Statement ('Expression Language Injection')

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2023-20863\] CWE-400: Uncontrolled Resource Consumption \('Resource Exhaustion'\)](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-20863>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/30325>
- OSSIndex - <https://spring.io/security/cve-2023-20863>
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(excluding\) 5.2.24](#)
- ...

[CVE-2022-22968](#)

In Spring Framework versions 5.3.0 - 5.3.18, 5.2.0 - 5.2.20, and older unsupported versions, the patterns for disallowedFields on a DataBinder are case sensitive which means a field is not effectively protected unless it is listed with both upper and lower case for the first character of the field, including upper and lower case for the first character of all nested fields within the property path.

CWE-178 Improper Handling of Case Sensitivity

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2022-22968\] CWE-178: Improper Handling of Case Sensitivity](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2022-22968>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28333>
- OSSIndex - <https://github.com/spring-projects/spring-framework/issues/28334>
- OSSIndex - <https://spring.io/blog/2022/04/13/spring-framework-data-binding-rules-vulnerability-cve-2022-22968>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2022-22968>
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0: versions up to \(including\) 5.2.20](#)
- ...

[CVE-2022-22970](#)

In spring framework versions prior to 5.3.20+ , 5.2.22+ and old unsupported versions, applications that handle file uploads are vulnerable to DoS attack if they rely on data binding to set a MultipartFile or javax.servlet.Part to a field in a model object.

CWE-770 Allocation of Resources Without Limits or Throttling

CVSSv2:

- Base Score: LOW (3.5)
- Vector: /AV:N/AC:M/Au:S/C:N/I:N/A:P

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:H/E:1.6/RC:R/MAV:A

References:

- security@vmware.com - [MITIGATION_VENDOR_ADVISORY](#)
- security@vmware.com - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions up to \(including\) 5.2.21](#)
- ...

[CVE-2021-22060](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.13, 5.2.0 - 5.2.18, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries. This is a follow-up to CVE-2021-22096 that protects against additional types of input and in more places of the Spring Framework codebase.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22060\] CWE-noinfo](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22060>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22060>
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.18](#)
- ...

[CVE-2021-22096](#) [suppress](#)

In Spring Framework versions 5.3.0 - 5.3.10, 5.2.0 - 5.2.17, and older unsupported versions, it is possible for a user to provide malicious input to cause the insertion of additional log entries.

CWE-117 Improper Output Neutralization for Logs, NVD-CWE-Other

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- OSSINDEX - [\[CVE-2021-22096\] CWE-117: Improper Output Neutralization for Logs](#)
- OSSIndex - <http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-22096>
- OSSIndex - <https://tanzu.vmware.com/security/cve-2021-22096>
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [THIRD_PARTY_ADVISORY](#)
- security@vmware.com - [VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:vmware:spring_framework:*:*:*:*:* versions from \(including\) 5.2.0; versions up to \(including\) 5.2.17](#)
- ...

tomcat-embed-core-9.0.30.jar

Description:

Core Tomcat implementation

License:

Apache License, Version 2.0: <http://www.apache.org/licenses/LICENSE-2.0.txt>

File Path: C:\Users\Alex\.m2\repository\org\apache\tomcat\embed\tomcat-embed-core\9.0.30\tomcat-embed-core-9.0.30.jar

MD5: f9e49f66756f133157f19e617af26ffe

SHA1: ad32909314fe2ba02cec036434c0add19bcc580

SHA256: b1415eecbc9f14e3745c1bfd41512a1b8e1af1332a7beaed4be30b2e0ba7b330

Referenced In Project/Scope: ssl-server:compile

Included by: pkg:maven/org.springframework.boot/spring-boot-starter-web@2.2.4.RELEASE

Evidence

Identifiers

- [pkg:maven/org.apache.tomcat.embed/tomcat-embed-core@9.0.30](#) (Confidence:High)
- [cpe:2.3:a:apache:tomcat:9.0.30:***:***:***](#) (Confidence:Highest)
- [cpe:2.3:a:apache:tomcat:apache_tomcat:9.0.30:***:***:***](#) (Confidence:Highest)

Published Vulnerabilities

CVE-2020-1938 suppress

CISA Known Exploited Vulnerability:

- Product: Apache Tomcat
- Name: Apache Tomcat Improper Privilege Management Vulnerability
- Date Added: 2022-03-03
- Description: Apache Tomcat treats Apache JServ Protocol (AJP) connections as having higher trust than, for example, a similar HTTP connection. If such connections are available to an attacker, they can be exploited.
- Required Action: Apply updates per vendor instructions.
- Due Date: 2022-03-17
- Notes: <https://nvd.nist.gov/vuln/detail/CVE-2020-1938>

When using the Apache JServ Protocol (AJP), care must be taken when trusting incoming connections to Apache Tomcat. Tomcat treats AJP connections as having higher trust than, for example, a similar HTTP connection. If such connections are available to an attacker, they can be exploited in ways that may be surprising. In Apache Tomcat 9.0.0.M1 to 9.0.0.30, 8.5.0 to 8.5.50 and 7.0.0 to 7.0.99, Tomcat shipped with an AJP Connector enabled by default that listened on all configured IP addresses. It was expected (and recommended in the security guide) that this Connector would be disabled if not required. This vulnerability report identified a mechanism that allowed: - returning arbitrary files from anywhere in the web application - processing any file in the web application as a JSP. Further, if the web application allowed file upload and stored those files within the web application (or the attacker was able to control the content of the web application by some other means) then this, along with the ability to process a file as a JSP, made remote code execution possible. It is important to note that mitigation is only required if an AJP port is accessible to untrusted users. Users wishing to take a defence-in-depth approach and block the vector that permits returning arbitrary files and execution as JSP may upgrade to Apache Tomcat 9.0.31, 8.5.51 or 7.0.100 or later. A number of changes were made to the default AJP Connector configuration in 9.0.31 to harden the default configuration. It is likely that users upgrading to 9.0.31, 8.5.51 or 7.0.100 or later will need to make small changes to their configurations.

NVD-CWE-Other

CVSSv2:

- Base Score: HIGH (7.5)
- Vector: /AV:N/AC:L/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: CRITICAL (9.8)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:3.9/RC:R/MAV:A

References:

- [illegible]

- security@apache.org - MAILING LIST RELEASE NOTES VENDOR ADVISORY
- security@apache.org - MAILING LIST THIRD PARTY ADVISORY
- security@apache.org - MAILING LIST THIRD PARTY ADVISORY
- security@apache.org - MAILING LIST THIRD PARTY ADVISORY
- security@apache.org - NOT APPLICABLE THIRD PARTY ADVISORY
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- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(including\) 9.0.36](#)
- ...

[CVE-2020-17527](#) [suppress](#)

While investigating bug 64830 it was discovered that Apache Tomcat 10.0.0-M1 to 10.0.0-M9, 9.0.0-M1 to 9.0.39 and 8.5.0 to 8.5.59 could re-use an HTTP request header value from the previous stream received on an HTTP/2 connection for the request associated with the subsequent stream. While this would most likely lead to an error and the closure of the HTTP/2 connection, it is possible that information could leak between requests.

CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(including\) 9.0.35](#)
- ...

[CVE-2021-25122](#) [suppress](#)

When responding to new h2c connection requests, Apache Tomcat versions 10.0.0-M1 to 10.0.0, 9.0.0-M1 to 9.0.41 and 8.5.0 to 8.5.61 could duplicate request headers and a limited amount of request body from one request to another meaning user A and user B could both see the results of user A's request.

CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
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- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.41](#)
- ...

[CVE-2021-41079](#) [suppress](#)

Apache Tomcat 8.5.0 to 8.5.63, 9.0.0-M1 to 9.0.43 and 10.0.0-M1 to 10.0.2 did not properly validate incoming TLS packets. When Tomcat was configured to use NIO+OpenSSL or NIO2+OpenSSL for TLS, a specially crafted packet could be used to trigger an infinite loop resulting in a denial of service.

CWE-20 Improper Input Validation, CWE-835 Loop with Unreachable Exit Condition ('Infinite Loop')

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(excluding\) 9.0.44](#)

[illegible]

CVE-2021-25329 suppress

The fix for CVE-2020-9484 was incomplete. When using Apache Tomcat 10.0.0-M1 to 10.0.0, 9.0.0-M1 to 9.0.41, 8.5.0 to 8.5.61 or 7.0.0 to 7.0.107 with a configuration edge case that was highly unlikely to be used, the Tomcat instance was still vulnerable to CVE-2020-9494. Note that both the previously published prerequisites for CVE-2020-9484 and the previously published mitigations for CVE-2020-9484 also apply to this issue.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.4)
- Vector: /AV:L/AC:M/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.0)
- Vector: CVSS:3.1/AV:L/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.0/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:VENDOR ADVISORY](#)
- security@apache.org - [PATCH:THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH:THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH:THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.41](#)
- ...

[CVE-2021-30640](#)

A vulnerability in the JNDI Realm of Apache Tomcat allows an attacker to authenticate using variations of a valid user name and/or to bypass some of the protection provided by the LockOut Realm. This issue affects Apache Tomcat 10.0.0-M1 to 10.0.5; 9.0.0-M1 to 9.0.45; 8.5.0 to 8.5.65.

CWE-116 Improper Encoding or Escaping of Output

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:H/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:VENDOR ADVISORY](#)
- security@apache.org - [PATCH:THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH:THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(excluding\) 9.0.46](#)
- ...

[CVE-2022-34305](#)

In Apache Tomcat 10.1.0-M1 to 10.1.0-M16, 10.0.0-M1 to 10.0.22, 9.0.30 to 9.0.64 and 8.5.50 to 8.5.81 the Form authentication example in the examples web application displayed user provided data without filtering, exposing a XSS vulnerability.

CWE-79 Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.1)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST:RELEASE NOTES,THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.30: versions up to \(including\) 9.0.64](#)
- ...

[CVE-2023-41080](#)

URL Redirection to Untrusted Site ('Open Redirect') vulnerability in FORM authentication feature Apache Tomcat. This issue affects Apache Tomcat: from 11.0.0-M1 through 11.0.0-M10, from 10.1.0-M1 through 10.0.12, from 9.0.0-M1 through 9.0.79 and from 8.5.0 through 8.5.92.

The vulnerability is limited to the ROOT (default) web application.

CWE-601 URL Redirection to Untrusted Site ('Open Redirect')

CVSSv3:

- Base Score: MEDIUM (6.1)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [ISSUE_TRACKING_PATCH_VENDOR_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.79](#)
- ...

[CVE-2021-24122](#) [suppress](#)

When serving resources from a network location using the NTFS file system, Apache Tomcat versions 10.0.0-M1 to 10.0.0-M9, 9.0.0-M1 to 9.0.39, 8.5.0 to 8.5.59 and 7.0.0 to 7.0.106 were susceptible to JSP source code disclosure in some configurations. The root cause was the unexpected behaviour of the JRE API `File.getCanonicalPath()` which in turn was caused by the inconsistent behaviour of the Windows API (`FindFirstFileW`) in some circumstances.

CWE-706 Use of Incorrectly-Resolved Name or Reference, CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: MEDIUM (5.9)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_VENDOR_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(including\) 9.0.39](#)
- ...

[CVE-2021-33037](#) [suppress](#)

Apache Tomcat 10.0.0-M1 to 10.0.6, 9.0.0-M1 to 9.0.46 and 8.5.0 to 8.5.66 did not correctly parse the HTTP transfer-encoding request header in some circumstances leading to the possibility to request smuggling when used with a reverse proxy. Specifically: - Tomcat incorrectly ignored the transfer encoding header if the client declared it would only accept an HTTP/1.0 response; - Tomcat honoured the identify encoding; and - Tomcat did not ensure that, if present, the chunked encoding was the final encoding.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_VENDOR_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(excluding\) 9.0.0: versions up to \(including\) 9.0.46](#)
- ...

[CVE-2023-42795](#) [suppress](#)

Incomplete Cleanup vulnerability in Apache Tomcat. When recycling various internal objects in Apache Tomcat from 11.0.0-M1 through 11.0.0-M11, from 10.1.0-M1 through 10.1.13, from 9.0.0-M1 through 9.0.80 and from 8.5.0 through 8.5.93, an error could cause Tomcat to skip some parts of the recycling process leading to information leaking from the current request/response to the next.

Users are recommended to upgrade to version 11.0.0-M12 onwards, 10.1.14 onwards, 9.0.81 onwards or 8.5.94 onwards, which fixes the issue.

CWE-459 Incomplete Cleanup

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_VENDOR_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.81](#)
- ...

[CVE-2023-45648](#) [suppress](#)

Improper Input Validation vulnerability in Apache Tomcat. Tomcat from 11.0.0-M1 through 11.0.0-M11, from 10.1.0-M1 through 10.1.13, from 9.0.0-M1 through 9.0.81 and from 8.5.0 through 8.5.93 did not correctly parse HTTP trailer headers. A specially crafted, invalid trailer header could cause Tomcat to treat a single request as multiple requests leading to the possibility of request smuggling when behind a reverse proxy.

Users are recommended to upgrade to version 11.0.0-M12 onwards, 10.1.14 onwards, 9.0.81 onwards or 8.5.94 onwards, which fix the issue.

CWE-20 Improper Input Validation, NVD-CWE-Other

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.81](#)
- ...

[CVE-2024-21733](#) [suppress](#)

Generation of Error Message Containing Sensitive Information vulnerability in Apache Tomcat. This issue affects Apache Tomcat: from 8.5.7 through 8.5.63, from 9.0.0-M11 through 9.0.43.

Users are recommended to upgrade to version 8.5.64 onwards or 9.0.44 onwards, which contain a fix for the issue.

CWE-209 Generation of Error Message Containing Sensitive Information

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST PATCH VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.44](#)
- ...

[CVE-2019-17569](#) [suppress](#)

The refactoring present in Apache Tomcat 9.0.28 to 9.0.30, 8.5.48 to 8.5.50 and 7.0.98 to 7.0.99 introduced a regression. The result of the regression was that invalid Transfer-Encoding headers were incorrectly processed leading to a possibility of HTTP Request Smuggling if Tomcat was located behind a reverse proxy that incorrectly handled the invalid Transfer-Encoding header in a particular manner. Such a reverse proxy is considered unlikely.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.8)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.28: versions up to \(including\) 9.0.30](#)
- ...

[CVE-2020-1935](#) [suppress](#)

In Apache Tomcat 9.0.0-M1 to 9.0.30, 8.5.0 to 8.5.50 and 7.0.0 to 7.0.99 the HTTP header parsing code used an approach to end-of-line parsing that allowed some invalid HTTP headers to be parsed as valid. This led to a possibility of HTTP Request Smuggling if Tomcat was located behind a reverse proxy that incorrectly handled the invalid Transfer-Encoding header in a particular manner. Such a reverse proxy is considered unlikely.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.8)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [BROKEN LINK MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.30](#)
- ...

[CVE-2020-13943](#) [suppress](#)

If an HTTP/2 client connecting to Apache Tomcat 10.0.0-M1 to 10.0.0-M7, 9.0.0-M1 to 9.0.37 or 8.5.0 to 8.5.57 exceeded the agreed maximum number of concurrent streams for a connection (in violation of the HTTP/2 protocol), it was possible that a subsequent request made on that connection could contain HTTP headers - including HTTP/2 pseudo headers - from a previous request rather than the intended headers. This could lead to users seeing responses for unexpected resources.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:P/I:N/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [BROKEN LINK](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:9.0.30:*:*:*:*](#)
- ...

[CVE-2023-28708](#) [suppress](#)

When using the RemotelpFilter with requests received from a reverse proxy via HTTP that include the X-Forwarded-Proto header set to https, session cookies created by Apache Tomcat 11.0.0-M1 to 11.0.0-M2, 10.1.0-M1 to 10.1.5, 9.0.0-M1 to 9.0.71 and 8.5.0 to 8.5.85 did not include the secure attribute. This could result in the user agent transmitting the session cookie over an insecure channel.

CWE-523 Unprotected Transport of Credentials

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:N/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST PATCH VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(excluding\) 9.0.0: versions up to \(excluding\) 9.0.72](#)
- ...

[CVE-2021-43980](#) [suppress](#)

The simplified implementation of blocking reads and writes introduced in Tomcat 10 and back-ported to Tomcat 9.0.47 onwards exposed a long standing (but extremely hard to trigger) concurrency bug in Apache Tomcat 10.1.0 to 10.1.0-M12, 10.0.0-M1 to 10.0.18, 9.0.0-M1 to 9.0.60 and 8.5.0 to 8.5.77 that could cause client connections to share an Http11Processor instance resulting in responses, or part responses, to be received by the wrong client.

CWE-362 Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')

CVSSv3:

- Base Score: LOW (3.7)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)

- [cpe:2.3:a:apache:tomcat:****:*:* versions from \(including\) 9.0.0; versions up to \(including\) 9.0.60](#)
- ...

- [illegible]

- [illegible]

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0; versions up to \(including\) 9.0.30](#)
- ...

CVE-2020-8022 suppress

A Incorrect Default Permissions vulnerability in the packaging of tomcat on SUSE Enterprise Storage 5, SUSE Linux Enterprise Server 12-SP2-BCL, SUSE Linux Enterprise Server 12-SP2-LTSS, SUSE Linux Enterprise Server 12-SP3-BCL, SUSE Linux Enterprise Server 12-SP3-LTSS, SUSE Linux Enterprise Server 12-SP4, SUSE Linux Enterprise Server 12-SP5, SUSE Linux Enterprise Server 15-LTSS, SUSE Linux Enterprise Server for SAP 12-SP2, SUSE Linux Enterprise Server for SAP 12-SP3, SUSE Linux Enterprise Server for SAP 15, SUSE OpenStack Cloud 7, SUSE OpenStack Cloud 8, SUSE OpenStack Cloud Crowbar 8 allows local attackers to escalate from group tomcat to root. This issue affects: SUSE Enterprise Storage 5 tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server 12-SP2-BCL tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server 12-SP2-LTSS tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server 12-SP3-BCL tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server 12-SP3-LTSS tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server 12-SP4 tomcat versions prior to 9.0.35-3.39.1. SUSE Linux Enterprise Server 12-SP5 tomcat versions prior to 9.0.35-3.39.1. SUSE Linux Enterprise Server 15-LTSS tomcat versions prior to 9.0.35-3.57.3. SUSE Linux Enterprise Server for SAP 12-SP2 tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server for SAP 12-SP3 tomcat versions prior to 8.0.53-29.32.1. SUSE Linux Enterprise Server for SAP 15 tomcat versions prior to 9.0.35-3.57.3. SUSE OpenStack Cloud 7 tomcat versions prior to 8.0.53-29.32.1. SUSE OpenStack Cloud 8 tomcat versions prior to 8.0.53-29.32.1. SUSE OpenStack Cloud Crowbar 8 tomcat versions prior to 8.0.53-29.32.1.

CWE-276 Incorrect Default Permissions

CVSSv2:

- Base Score: HIGH (7.2)
- Vector: /AV:L/AC:L/Au:N/C:C/I:C/A:C

CVSSv3:

- Base Score: HIGH (7.8)
- Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.8/RC:R/MAV:A

References:

- meissner@suse.de - [EXPLOIT,ISSUE_TRACKING,VENDOR_ADVISORY](#)
- meissner@suse.de - [MAILING_LIST,VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*.~1.*.*.*.*.* versions up to \(excluding\) 9.0.35-3.57.3](#)
- ...

CVE-2020-11996 suppress

A specially crafted sequence of HTTP/2 requests sent to Apache Tomcat 10.0.0-M1 to 10.0.0-M5, 9.0.0.M1 to 9.0.35 and 8.5.0 to 8.5.55 could trigger high CPU usage for several seconds. If a sufficient number of such requests were made on concurrent HTTP/2 connections, the server could become unresponsive.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST.THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING_LIST.THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING_LIST.THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING_LIST.VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0; versions up to \(including\) 9.0.35](#)
- ...

[CVE-2020-13934](#) [suppress](#)

An h2c direct connection to Apache Tomcat 10.0.0-M1 to 10.0.0-M6, 9.0.0.M5 to 9.0.36 and 8.5.1 to 8.5.56 did not release the HTTP/1.1 processor after the upgrade to HTTP/2. If a sufficient number of such requests were made, an OutOfMemoryException could occur leading to a denial of service.

CWE-401 Missing Release of Memory after Effective Lifetime, CWE-476 NULL Pointer Dereference

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST RELEASE NOTES VENDOR ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1; versions up to \(including\) 9.0.36](#)
- ...

[CVE-2020-13935](#) [suppress](#)

The payload length in a WebSocket frame was not correctly validated in Apache Tomcat 10.0.0-M1 to 10.0.0-M6, 9.0.0.M1 to 9.0.36, 8.5.0 to 8.5.56 and 7.0.27 to 7.0.104. Invalid payload lengths could trigger an infinite loop. Multiple requests with invalid payload lengths could lead to a denial of service.

CWE-835 Loop with Unreachable Exit Condition ('Infinite Loop')

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST RELEASE NOTES VENDOR ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [NOT APPLICABLE THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1; versions up to \(including\) 9.0.36](#)
- ...

[CVE-2020-17527](#) [suppress](#)

While investigating bug 64830 it was discovered that Apache Tomcat 10.0.0-M1 to 10.0.0-M9, 9.0.0-M1 to 9.0.39 and 8.5.0 to 8.5.59 could re-use an HTTP request header value from the previous stream received on an HTTP/2 connection for the request associated with the subsequent stream. While this would most likely lead to an error and the closure of the HTTP/2 connection, it is possible that information could leak between requests.

CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)

- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(including\) 9.0.35](#)
- ...

[CVE-2021-25122](#) [suppress](#)

When responding to new h2c connection requests, Apache Tomcat versions 10.0.0-M1 to 10.0.0, 9.0.0-M1 to 9.0.41 and 8.5.0 to 8.5.61 could duplicate request headers and a limited amount of request body from one request to another meaning user A and user B could both see the results of user A's request.

CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST,THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST,THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST,VENDOR ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.41](#)
- ...

[CVE-2021-41079](#) [suppress](#)

Apache Tomcat 8.5.0 to 8.5.63, 9.0.0-M1 to 9.0.43 and 10.0.0-M1 to 10.0.2 did not properly validate incoming TLS packets. When Tomcat was configured to use NIO+OpenSSL or NIO2+OpenSSL for TLS, a specially crafted packet could be used to trigger an infinite loop resulting in a denial of service.

CWE-20 Improper Input Validation, CWE-835 Loop with Unreachable Exit Condition ('Infinite Loop')

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST,THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST,VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(excluding\) 9.0.44](#)
- ...

[CVE-2022-29885](#) [suppress](#)

The documentation of Apache Tomcat 10.1.0-M1 to 10.1.0-M14, 10.0.0-M1 to 10.0.20, 9.0.13 to 9.0.62 and 8.5.38 to 8.5.78 for the EncryptInterceptor incorrectly stated it enabled Tomcat clustering to run over an untrusted network. This was not correct. While the EncryptInterceptor does provide confidentiality and integrity protection, it does not protect against all risks associated with running over any untrusted network, particularly DoS risks.

CWE-400 Uncontrolled Resource Consumption, NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST,MITIGATION,VENDOR ADVISORY](#)
- security@apache.org - [MAILING LIST,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.13: versions up to \(including\) 9.0.62](#)
- ...

[CVE-2022-42252](#) [suppress](#)

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N/E:3.9/RC:R/MAV:A

- security@apache.org - [MAILING LIST, VENDOR ADVISORY](#)

- [cpe:2.3:a:apache:tomcat:.*:.*:.*:.* versions from \(including\) 9.0.0; versions up to \(excluding\) 9.0.68](#)
- [cpe:2.3:a:apache:tomcat:.*:.*:.*:.* versions from \(including\) 9.0.0; versions up to \(excluding\) 9.0.68](#)

- Product: IETF HTTP/2
- Name: HTTP/2 Rapid Reset Attack Vulnerability
- Date Added: 2023-10-10
- Description: HTTP/2 contains a rapid reset vulnerability that allows for a distributed denial-of-service attack (DDoS).
- Required Action: Apply mitigations per vendor instructions or discontinue use of the product if mitigations are unavailable.
- Due Date: 2023-10-31
- Notes: This vulnerability affects a common open-source component, third-party library, or a protocol used by different products. Please check with specific vendors for information on patching status. For more information, please see: <https://blog.cloudflare.com/technical-breakdown-http2-rapid-reset-ddos-attack/> ; <https://nvd.nist.gov/vuln/detail/CVE-2023-44487>

CWE-400 Uncontrolled Resource Consumption. NVD-CWE-noinfo

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:3.9/RC:R/MAV:A

[illegible]

Improper Input Validation vulnerability in Apache Tomcat. Tomcat from 11.0.0-M1 through 11.0.0-M10, from 10.1.0-M1 through 10.1.15, from 9.0.0-M1 through 9.0.82 and from 8.5.0 through 8.5.95 did not correctly parse HTTP trailer headers. A trailer header that exceeded the header size limit could cause Tomcat to treat a single request as multiple requests leading to the possibility of request smuggling when behind a reverse proxy.

Users are recommended to upgrade to version 11.0.0-M11 onwards, 10.1.16 onwards, 9.0.83 onwards or 8.5.96 onwards, which fix the issue.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv3:

- Base Score: HIGH (7.5)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_VENDOR_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(excluding\) 9.0.83](#)
- ...

[CVE-2020-9484](#) [suppress](#)

When using Apache Tomcat versions 10.0.0-M1 to 10.0.0-M4, 9.0.0.M1 to 9.0.34, 8.5.0 to 8.5.54 and 7.0.0 to 7.0.103 if a) an attacker is able to control the contents and name of a file on the server; and b) the server is configured to use the PersistenceManager with a FileStore; and c) the PersistenceManager is configured with sessionAttributeValueClassNameFilter="null" (the default unless a SecurityManager is used) or a sufficiently lax filter to allow the attacker provided object to be deserialized; and d) the attacker knows the relative file path from the storage location used by FileStore to the file the attacker has control over; then, using a specifically crafted request, the attacker will be able to trigger remote code execution via deserialization of the file under their control. Note that all of conditions a) to d) must be true for the attack to succeed.

CWE-502 Deserialization of Untrusted Data

CVSSv2:

- Base Score: MEDIUM (4.4)
- Vector: /AV:L/AC:M/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.0)
- Vector: CVSS:3.1/AV:L/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.0/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_MITIGATION_PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
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- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY_VDB_ENTRY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.43](#)
- ...

[CVE-2021-25329](#) [suppress](#)

The fix for CVE-2020-9484 was incomplete. When using Apache Tomcat 10.0.0-M1 to 10.0.0, 9.0.0.M1 to 9.0.41, 8.5.0 to 8.5.61 or 7.0.0 to 7.0.107 with a configuration edge case that was highly unlikely to be used, the Tomcat instance was still vulnerable to CVE-2020-9494. Note that both the previously published prerequisites for CVE-2020-9484 and the previously published mitigations for CVE-2020-9484 also apply to this issue.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.4)
- Vector: /AV:L/AC:M/Au:N/C:P/I:P/A:P

CVSSv3:

- Base Score: HIGH (7.0)
- Vector: CVSS:3.1/AV:L/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H/E:1.0/RC:R/MAV:A

References:

- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [MAILING_LIST_VENDOR_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [PATCH_THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)
- security@apache.org - [THIRD_PARTY_ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.41](#)
- ...

[CVE-2021-30640](#) [suppress](#)

A vulnerability in the JNDI Realm of Apache Tomcat allows an attacker to authenticate using variations of a valid user name and/or to bypass some of the protection provided by the LockOut Realm. This issue affects Apache Tomcat 10.0.0-M1 to 10.0.5; 9.0.0.M1 to 9.0.45; 8.5.0 to 8.5.65.

CWE-116 Improper Encoding or Escaping of Output

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.5)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:H/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(excluding\) 9.0.45](#)
- ...

[CVE-2022-34305](#) [suppress](#)

In Apache Tomcat 10.1.0-M1 to 10.1.0-M16, 10.0.0-M1 to 10.0.22, 9.0.30 to 9.0.64 and 8.5.50 to 8.5.81 the Form authentication example in the examples web application displayed user provided data without filtering, exposing a XSS vulnerability.

CWE-79 Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (6.1)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST RELEASE NOTES THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.30: versions up to \(including\) 9.0.64](#)
- ...

[CVE-2023-41080](#) [suppress](#)

URL Redirection to Untrusted Site ('Open Redirect') vulnerability in FORM authentication feature Apache Tomcat. This issue affects Apache Tomcat: from 11.0.0-M1 through 11.0.0-M10, from 10.1.0-M1 through 10.0.12, from 9.0.0-M1 through 9.0.79 and from 8.5.0 through 8.5.92.

The vulnerability is limited to the ROOT (default) web application.

CWE-601 URL Redirection to Untrusted Site ('Open Redirect')

CVSSv3:

- Base Score: MEDIUM (6.1)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:L/I:L/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [ISSUE TRACKING PATCH VENDOR ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.79](#)
- ...

[CVE-2021-24122](#) [suppress](#)

When serving resources from a network location using the NTFS file system, Apache Tomcat versions 10.0.0-M1 to 10.0.0-M9, 9.0.0.M1 to 9.0.39, 8.5.0 to 8.5.59 and 7.0.0 to 7.0.106 were susceptible to JSP source code disclosure in some configurations. The root cause was the unexpected behaviour of the JRE API `File.getCanonicalPath()` which in turn was caused by the inconsistent behaviour of the Windows API (`FindFirstFileW`) in some circumstances.

CWE-706 Use of Incorrectly-Resolved Name or Reference, CWE-200 Exposure of Sensitive Information to an Unauthorized Actor

CVSSv2:

- Base Score: MEDIUM (4.3)
- Vector: /AV:N/AC:M/Au:N/C:P/I:N/A:N

CVSSv3:

- Base Score: MEDIUM (5.9)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(including\) 9.0.39](#)
- ...

[CVE-2021-33037](#) [suppress](#)

Apache Tomcat 10.0.0-M1 to 10.0.6, 9.0.0-M1 to 9.0.46 and 8.5.0 to 8.5.66 did not correctly parse the HTTP transfer-encoding request header in some circumstances leading to the possibility to request smuggling when used with a reverse proxy. Specifically: - Tomcat incorrectly ignored the transfer encoding header if the client declared it would only accept an HTTP/1.0 response; - Tomcat honoured the identify encoding; and - Tomcat did not ensure that, if present, the chunked encoding was the final encoding.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.0)
- Vector: /AV:N/AC:L/Au:N/C:N/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(excluding\) 9.0.0: versions up to \(including\) 9.0.46](#)
- ...

[CVE-2023-42795](#) [suppress](#)

Incomplete Cleanup vulnerability in Apache Tomcat. When recycling various internal objects in Apache Tomcat from 11.0.0-M1 through 11.0.0-M11, from 10.1.0-M1 through 10.1.13, from 9.0.0-M1 through 9.0.80 and from 8.5.0 through 8.5.93, an error could cause Tomcat to skip some parts of the recycling process leading to information leaking from the current request/response to the next.

Users are recommended to upgrade to version 11.0.0-M12 onwards, 10.1.14 onwards, 9.0.81 onwards or 8.5.94 onwards, which fixes the issue.

CWE-459 Incomplete Cleanup

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.81](#)
- ...

[CVE-2023-45648](#) [suppress](#)

Improper Input Validation vulnerability in Apache Tomcat. Tomcat from 11.0.0-M1 through 11.0.0-M11, from 10.1.0-M1 through 10.1.13, from 9.0.0-M1 through 9.0.81 and from 8.5.0 through 8.5.93 did not correctly parse HTTP trailer headers. A specially crafted, invalid trailer header could cause Tomcat to treat a single request as multiple requests leading to the possibility of request smuggling when behind a reverse proxy.

Users are recommended to upgrade to version 11.0.0-M12 onwards, 10.1.14 onwards, 9.0.81 onwards or 8.5.94 onwards, which fix the issue.

CWE-20 Improper Input Validation, NVD-CWE-Other

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*.*.*.*.* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.81](#)
- ...

[CVE-2024-21733](#) [suppress](#)

Generation of Error Message Containing Sensitive Information vulnerability in Apache Tomcat. This issue affects Apache Tomcat: from 8.5.7 through 8.5.63, from 9.0.0-M11 through 9.0.43.

Users are recommended to upgrade to version 8.5.64 onwards or 9.0.44 onwards, which contain a fix for the issue.

CWE-209 Generation of Error Message Containing Sensitive Information

CVSSv3:

- Base Score: MEDIUM (5.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:3.9/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST:PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:PATCH,VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*.*.*.*.* versions from \(including\) 9.0.1: versions up to \(excluding\) 9.0.44](#)
- ...

[CVE-2019-17569](#) [suppress](#)

The refactoring present in Apache Tomcat 9.0.28 to 9.0.30, 8.5.48 to 8.5.50 and 7.0.98 to 7.0.99 introduced a regression. The result of the regression was that invalid Transfer-Encoding headers were incorrectly processed leading to a possibility of HTTP Request Smuggling if Tomcat was located behind a reverse proxy that incorrectly handled the invalid Transfer-Encoding header in a particular manner. Such a reverse proxy is considered unlikely.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.8)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:VENDOR ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH,THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*.*.*.*.* versions from \(including\) 9.0.28: versions up to \(including\) 9.0.30](#)
- ...

[CVE-2020-1935](#) [suppress](#)

In Apache Tomcat 9.0.0.M1 to 9.0.30, 8.5.0 to 8.5.50 and 7.0.0 to 7.0.99 the HTTP header parsing code used an approach to end-of-line parsing that allowed some invalid HTTP headers to be parsed as valid. This led to a possibility of HTTP Request Smuggling if Tomcat was located behind a reverse proxy that incorrectly handled the invalid Transfer-Encoding header in a particular manner. Such a reverse proxy is considered unlikely.

CWE-444 Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling')

CVSSv2:

- Base Score: MEDIUM (5.8)
- Vector: /AV:N/AC:M/Au:N/C:P/I:P/A:N

CVSSv3:

- Base Score: MEDIUM (4.8)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [BROKEN LINK:MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST:VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*.*.*.*.* versions from \(including\) 9.0.0: versions up to \(including\) 9.0.30](#)
- ...

[CVE-2020-13943](#) [suppress](#)

If an HTTP/2 client connecting to Apache Tomcat 10.0.0-M1 to 10.0.0-M7, 9.0.0-M1 to 9.0.37 or 8.5.0 to 8.5.57 exceeded the agreed maximum number of concurrent streams for a connection (in violation of the HTTP/2 protocol), it was possible that a subsequent request made on that connection could contain HTTP headers - including HTTP/2 pseudo headers - from a previous request rather than the intended headers. This could lead to users seeing responses for unexpected resources.

NVD-CWE-noinfo

CVSSv2:

- Base Score: MEDIUM (4.0)
- Vector: /AV:N/AC:L/Au:S/C:P/I:N/A:N

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [BROKEN LINK](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [PATCH THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)
- security@apache.org - [VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:9.0.30:*:*:*:*:*](#)
- ...

[CVE-2023-28708](#) [suppress](#)

When using the RemoteIpFilter with requests received from a reverse proxy via HTTP that include the X-Forwarded-Proto header set to https, session cookies created by Apache Tomcat 11.0.0-M1 to 11.0.0-M2, 10.1.0-M1 to 10.1.5, 9.0.0-M1 to 9.0.71 and 8.5.0 to 8.5.85 did not include the secure attribute. This could result in the user agent transmitting the session cookie over an insecure channel.

CWE-523 Unprotected Transport of Credentials

CVSSv3:

- Base Score: MEDIUM (4.3)
- Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:N/A:N/E:2.8/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST PATCH VENDOR ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:*:* versions from \(excluding\) 9.0.0; versions up to \(excluding\) 9.0.72](#)
- ...

[CVE-2021-43980](#) [suppress](#)

The simplified implementation of blocking reads and writes introduced in Tomcat 10 and back-ported to Tomcat 9.0.47 onwards exposed a long standing (but extremely hard to trigger) concurrency bug in Apache Tomcat 10.1.0 to 10.1.0-M12, 10.0.0-M1 to 10.0.18, 9.0.0-M1 to 9.0.60 and 8.5.0 to 8.5.77 that could cause client connections to share an Http11Processor instance resulting in responses, or part responses, to be received by the wrong client.

CWE-362 Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')

CVSSv3:

- Base Score: LOW (3.7)
- Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N/E:2.2/RC:R/MAV:A

References:

- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST THIRD PARTY ADVISORY](#)
- security@apache.org - [MAILING LIST VENDOR ADVISORY](#)
- security@apache.org - [THIRD PARTY ADVISORY](#)

Vulnerable Software & Versions: ([show all](#))

- [cpe:2.3:a:apache:tomcat:*:*:*:*:*:* versions from \(including\) 9.0.0; versions up to \(including\) 9.0.60](#)
- ...

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This report may contain data retrieved from the [Github Advisory Database \(via NPM Audit API\)](#).

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