|  |  |  |
| --- | --- | --- |
| Certainty | : | **Out-of-date version (Tomcat)** |
| URL | : | <http://zero.webappsecurity.com/resources/js/> |
| Identified Version | : | 7.0.70 |
| Latest Version | : | 10.0.16 (in this branch) |
| Vulnerability Database | : | Result is based on 02/16/2022 20:30:00 vulnerability database content. |

CLASSIFICATION

|  |  |
| --- | --- |
| PCI DSS 3.2 | [6.2](https://www.pcisecuritystandards.org/document_library?category=pcidss&document=pci_dss) |
| OWASP 2013 | [A9](http://www.owasp.org/index.php/Top_10_2013-A9) |
| OWASP 2017 | [A9](https://www.owasp.org/index.php/Top_10_2017-A9) |
| CWE | [829](http://cwe.mitre.org/data/definitions/829.html) |
| CAPEC | [310](http://capec.mitre.org/data/definitions/310.html) |
| HIPAA | [164.308(A)(1)(I)](http://www.hhs.gov/sites/default/files/ocr/privacy/hipaa/administrative/securityrule/techsafeguards.pdf) |
| ISO27001 | [A.14.1.2](https://www.netsparker.com/compliance-reports/iso27001/control-objectives-and-controls/#A-14-1-2) |

**Vulnerability Details**

Netsparker identified you are using an out-of-date version of Tomcat.

**Remedy**

Please upgrade your installation of Tomcat to the latest stable version.

**Remedy References**

* [Apache Tomcat Versions and Download](https://tomcat.apache.org/whichversion.html)

**Known Vulnerabilities in this Version**

Apache Tomcat Improper Authentication Vulnerability

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.

Affected Versions

7.0.0 to 7.0.108

External References

* [CVE-2021-30640](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-30640)

Apache Tomcat Deserialization of Untrusted Data Vulnerability

The fix for [CVE-2020-9484](http://web.nvd.nist.gov/view/vuln/detail?vulnId=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](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-9494). Note that both the previously published prerequisites for [CVE-2020-9484](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-9484) and the previously published mitigations for [CVE-2020-9484](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-9484) also apply to this issue.

Affected Versions

7.0.0 to 7.0.107

External References

* [CVE-2021-25329](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-25329)

Apache Tomcat Insufficient Information Vulnerability

Apache Tomcat through 7.0.x allows remote attackers to cause a denial of service (daemon outage) via partial HTTP requests, as demonstrated by Slowloris.

Affected Versions

7.0.0 to 7.0.100

External References

* [CVE-2012-5568](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2012-5568)

Apache Tomcat 7PK - Security Features Vulnerability

Jenkins before 1.586 does not set the secure flag on session cookies when run on Tomcat 7.0.41 or later, which makes it easier for remote attackers to capture cookies by intercepting their transmission within an HTTP session.

Affected Versions

7.0.54 to 7.0.81

External References

* [CVE-2014-9634](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-9634)

Apache Tomcat 7PK - Security Features Vulnerability

Jenkins before 1.586 does not set the HttpOnly flag in a Set-Cookie header for session cookies when run on Tomcat 7.0.41 or later, which makes it easier for remote attackers to obtain potentially sensitive information via script access to cookies.

Affected Versions

7.0.54 to 7.0.81

External References

* [CVE-2014-9635](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-9635)

Apache Tomcat Unrestricted Upload of File with Dangerous Type Vulnerability

When running Apache Tomcat 7.0.0 to 7.0.79 on Windows with HTTP PUTs enabled (e.g. via setting the readonly initialisation parameter of the Default to false) it was possible to upload a JSP file to the server via a specially crafted request. This JSP could then be requested and any code it contained would be executed by the server.

Affected Versions

7.0.54 to 7.0.77

External References

* [CVE-2017-12615](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-12615)

Apache Tomcat Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection') Vulnerability

When running on Windows with enableCmdLineArguments enabled, the CGI Servlet in Apache Tomcat 9.0.0.M1 to 9.0.17, 8.5.0 to 8.5.39 and 7.0.0 to 7.0.93 is vulnerable to Remote Code Execution due to a bug in the way the JRE passes command line arguments to Windows. The CGI Servlet is disabled by default. The CGI option enableCmdLineArguments is disable by default in Tomcat 9.0.x (and will be disabled by default in all versions in response to this vulnerability). For a detailed explanation of the JRE behaviour, see Markus Wulftange's blog (<https://codewhitesec.blogspot.com/2016/02/java-and-command-line-injections-in-windows.html>) and this archived MSDN blog ([https://web.archive.org/web/20161228144344/https://blogs.msdn.microsoft.com/twistylittlepassagesallalike/2011/04/23/everyone-quotes-command-line-arguments-the-wrong-way/](https://web.archive.org/web/20161228144344/https:/blogs.msdn.microsoft.com/twistylittlepassagesallalike/2011/04/23/everyone-quotes-command-line-arguments-the-wrong-way/)).

Affected Versions

7.0.0 to 7.0.93

External References

* [CVE-2019-0232](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2019-0232)

Apache Tomcat Incorrect Default Permissions Vulnerability

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.

Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Incorrect Default Permissions Vulnerability

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Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

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Affected Versions

1.1.3 to 7.0.100

External References

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Affected Versions

1.1.3 to 7.0.100

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Affected Versions

1.1.3 to 7.0.100

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Affected Versions

1.1.3 to 7.0.100

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Affected Versions

1.1.3 to 7.0.100

External References

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Affected Versions

1.1.3 to 7.0.100

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Affected Versions

1.1.3 to 7.0.100

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* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Incorrect Default Permissions Vulnerability

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.

Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Incorrect Default Permissions Vulnerability

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.

Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Incorrect Default Permissions Vulnerability

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.

Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Incorrect Default Permissions Vulnerability

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.

Affected Versions

1.1.3 to 7.0.100

External References

* [CVE-2020-8022](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-8022)

Apache Tomcat Exposure of Sensitive Information to an Unauthorized Actor

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 behavior of the JRE API File.getCanonicalPath() which in turn was caused by the inconsistent behavior of the Windows API (FindFirstFileW) in some circumstances.

Affected Versions

7.0.0 to 7.0.106

External References

* [CVE-2021-24122](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-24122)

Apache Tomcat Insufficient Information Vulnerability

The URL pattern of "" (the empty string) which exactly maps to the context root was not correctly handled in Apache Tomcat 9.0.0.M1 to 9.0.4, 8.5.0 to 8.5.27, 8.0.0.RC1 to 8.0.49 and 7.0.0 to 7.0.84 when used as part of a security constraint definition. This caused the constraint to be ignored. It was, therefore, possible for unauthorised users to gain access to web application resources that should have been protected. Only security constraints with a URL pattern of the empty string were affected.

Affected Versions

7.0.0 to 7.0.84

External References

* [CVE-2018-1304](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-1304)

Apache Tomcat Insecure Default Initialization of Resource Vulnerability

The defaults settings for the CORS filter provided in Apache Tomcat 9.0.0.M1 to 9.0.8, 8.5.0 to 8.5.31, 8.0.0.RC1 to 8.0.52, 7.0.41 to 7.0.88 are insecure and enable 'supportsCredentials' for all origins. It is expected that users of the CORS filter will have configured it appropriately for their environment rather than using it in the default configuration. Therefore, it is expected that most users will not be impacted by this issue.

Affected Versions

7.0.41 to 7.0.88

External References

* [CVE-2018-8014](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-8014)

Apache Tomcat Improper Certificate Validation Vulnerability

The host name verification when using TLS with the WebSocket client was missing. It is now enabled by default. Versions Affected: Apache Tomcat 9.0.0.M1 to 9.0.9, 8.5.0 to 8.5.31, 8.0.0.RC1 to 8.0.52, and 7.0.35 to 7.0.88.

Affected Versions

7.0.35 to 7.0.88

External References

* [CVE-2018-8034](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-8034)

Apache Tomcat Insufficient Information Vulnerability

Security constraints defined by annotations of Servlets in Apache Tomcat 9.0.0.M1 to 9.0.4, 8.5.0 to 8.5.27, 8.0.0.RC1 to 8.0.49 and 7.0.0 to 7.0.84 were only applied once a Servlet had been loaded. Because security constraints defined in this way apply to the URL pattern and any URLs below that point, it was possible - depending on the order Servlets were loaded - for some security constraints not to be applied. This could have exposed resources to users who were not authorised to access them.

Affected Versions

7.0.0 to 7.0.84

External References

* [CVE-2018-1305](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-1305)

Apache Tomcat Improper Handling of Exceptional Conditions Vulnerability

The error page mechanism of the Java Servlet Specification requires that, when an error occurs and an error page is configured for the error that occurred, the original request and response are forwarded to the error page. This means that the request is presented to the error page with the original HTTP method. If the error page is a static file, expected behaviour is to serve content of the file as if processing a GET request, regardless of the actual HTTP method. The Default Servlet in Apache Tomcat 9.0.0.M1 to 9.0.0.M20, 8.5.0 to 8.5.14, 8.0.0.RC1 to 8.0.43 and 7.0.0 to 7.0.77 did not do this. Depending on the original request this could lead to unexpected and undesirable results for static error pages including, if the DefaultServlet is configured to permit writes, the replacement or removal of the custom error page. Notes for other user provided error pages: (1) Unless explicitly coded otherwise, JSPs ignore the HTTP method. JSPs used as error pages must must ensure that they handle any error dispatch as a GET request, regardless of the actual method. (2) By default, the response generated by a Servlet does depend on the HTTP method. Custom Servlets used as error pages must ensure that they handle any error dispatch as a GET request, regardless of the actual method.

Affected Versions

7.0.54 to 7.0.77

External References

* [CVE-2017-5664](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-5664)

Apache Tomcat 7PK - Security Features Vulnerability

A malicious web application running on Apache Tomcat 9.0.0.M1 to 9.0.0.M9, 8.5.0 to 8.5.4, 8.0.0.RC1 to 8.0.36, 7.0.0 to 7.0.70 and 6.0.0 to 6.0.45 was able to bypass a configured SecurityManager via manipulation of the configuration parameters for the JSP Servlet.

Affected Versions

7.0.52 to 7.0.70

External References

* [CVE-2016-6796](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-6796)

Apache Tomcat Improper Input Validation Vulnerability

The code in Apache Tomcat 9.0.0.M1 to 9.0.0.M11, 8.5.0 to 8.5.6, 8.0.0.RC1 to 8.0.38, 7.0.0 to 7.0.72, and 6.0.0 to 6.0.47 that parsed the HTTP request line permitted invalid characters. This could be exploited, in conjunction with a proxy that also permitted the invalid characters but with a different interpretation, to inject data into the HTTP response. By manipulating the HTTP response the attacker could poison a web-cache, perform an XSS attack and/or obtain sensitive information from requests other then their own.

Affected Versions

7.0.0 to 7.0.72

External References

* [CVE-2016-6816](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-6816)

Apache Tomcat Unrestricted Upload of File with Dangerous Type Vulnerability

When running Apache Tomcat versions 9.0.0.M1 to 9.0.0, 8.5.0 to 8.5.22, 8.0.0.RC1 to 8.0.46 and 7.0.0 to 7.0.81 with HTTP PUTs enabled (e.g. via setting the readonly initialisation parameter of the Default servlet to false) it was possible to upload a JSP file to the server via a specially crafted request. This JSP could then be requested and any code it contained would be executed by the server.

Affected Versions

7.0.54 to 7.0.77

External References

* [CVE-2017-12617](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-12617)

Apache Tomcat Exposure of Sensitive Information to an Unauthorized Actor Vulnerability

A bug in the handling of the pipelined requests in Apache Tomcat 9.0.0.M1 to 9.0.0.M18, 8.5.0 to 8.5.12, 8.0.0.RC1 to 8.0.42, 7.0.0 to 7.0.76, and 6.0.0 to 6.0.52, when send file was used, results in the pipelined request being lost when send file processing of the previous request completed. This could result in responses appearing to be sent for the wrong request. For example, a user agent that sent requests A, B and C could see the correct response for request A, the response for request C for request B and no response for request C.

Affected Versions

7.0.0 to 7.0.76

External References

* [CVE-2017-5647](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-5647)

Apache Tomcat Exposure of Resource to Wrong Sphere Vulnerability

While investigating bug 60718, it was noticed that some calls to application listeners in Apache Tomcat 9.0.0.M1 to 9.0.0.M17, 8.5.0 to 8.5.11, 8.0.0.RC1 to 8.0.41, and 7.0.0 to 7.0.75 did not use the appropriate facade object. When running an untrusted application under a SecurityManager, it was therefore possible for that untrusted application to retain a reference to the request or response object and thereby access and/or modify information associated with another web application.

Affected Versions

7.0.0 to 7.0.75

External References

* [CVE-2017-5648](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-5648)

Apache Tomcat Exposure of Sensitive Information to an Unauthorized Actor Vulnerability

When a SecurityManager is configured, a web application's ability to read system properties should be controlled by the SecurityManager. In Apache Tomcat 9.0.0.M1 to 9.0.0.M9, 8.5.0 to 8.5.4, 8.0.0.RC1 to 8.0.36, 7.0.0 to 7.0.70, 6.0.0 to 6.0.45 the system property replacement feature for configuration files could be used by a malicious web application to bypass the SecurityManager and read system properties that should not be visible.

Affected Versions

7.0.52 to 7.0.70

External References

* [CVE-2016-6794](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-6794)

Apache Tomcat 7PK - Security Features Vulnerability

In Apache Tomcat 9.0.0.M1 to 9.0.0.M9, 8.5.0 to 8.5.4, 8.0.0.RC1 to 8.0.36, 7.0.0 to 7.0.70 and 6.0.0 to 6.0.45 a malicious web application was able to bypass a configured SecurityManager via a Tomcat utility method that was accessible to web applications.

Affected Versions

7.0.52 to 7.0.70

External References

* [CVE-2016-5018](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-5018)

Apache Tomcat Exposure of Sensitive Information to an Unauthorized Actor Vulnerability

When using a VirtualDirContext with Apache Tomcat 7.0.0 to 7.0.80 it was possible to bypass security constraints and/or view the source code of JSPs for resources served by the VirtualDirContext using a specially crafted request.

Affected Versions

7.0.54 to 7.0.77

External References

* [CVE-2017-12616](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-12616)

Apache Tomcat Improper Access Control Vulnerability

The ResourceLinkFactory implementation in Apache Tomcat 9.0.0.M1 to 9.0.0.M9, 8.5.0 to 8.5.4, 8.0.0.RC1 to 8.0.36, 7.0.0 to 7.0.70 and 6.0.0 to 6.0.45 did not limit web application access to global JNDI resources to those resources explicitly linked to the web application. Therefore, it was possible for a web application to access any global JNDI resource whether an explicit ResourceLink had been configured or not.

Affected Versions

7.0.52 to 7.0.70

External References

* [CVE-2016-6797](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-6797)

Apache Tomcat Improper Access Control Vulnerability

Apache Tomcat 7.x through 7.0.70 and 8.x through 8.5.4, when the CGI Servlet is enabled, follows RFC 3875 section 4.1.18 and therefore does not protect applications from the presence of untrusted client data in the HTTP\_PROXY environment variable, which might allow remote attackers to redirect an application's outbound HTTP traffic to an arbitrary proxy server via a crafted Proxy header in an HTTP request, aka an "httpoxy" issue. NOTE: the vendor states "A mitigation is planned for future releases of Tomcat, tracked as [CVE-2016-5388](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-5388)"; in other words, this is not a CVE ID for a vulnerability.

Affected Versions

7.0 to 7.0.70

External References

* [CVE-2016-5388](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-5388)

Apache Tomcat Loop with Unreachable Exit Condition ('Infinite Loop') Vulnerability

An improper handing of overflow in the UTF-8 decoder with supplementary characters can lead to an infinite loop in the decoder causing a Denial of Service. Versions Affected: Apache Tomcat 9.0.0.M9 to 9.0.7, 8.5.0 to 8.5.30, 8.0.0.RC1 to 8.0.51, and 7.0.28 to 7.0.86.

Affected Versions

7.0.28 to 7.0.86

External References

* [CVE-2018-1336](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-1336)

Apache Tomcat URL Redirection to Untrusted Site ('Open Redirect') Vulnerability

When the default servlet in Apache Tomcat versions 9.0.0.M1 to 9.0.11, 8.5.0 to 8.5.33 and 7.0.23 to 7.0.90 returned a redirect to a directory (e.g. redirecting to '/foo/' when the user requested '/foo') a specially crafted URL could be used to cause the redirect to be generated to any URI of the attackers choice.

Affected Versions

7.0.23 to 7.0.90

External References

* [CVE-2018-11784](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-11784)

Apache Tomcat Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') Vulnerability

The SSI printenv command in Apache Tomcat 9.0.0.M1 to 9.0.0.17, 8.5.0 to 8.5.39 and 7.0.0 to 7.0.93 echoes user provided data without escaping and is, therefore, vulnerable to XSS. SSI is disabled by default. The printenv command is intended for debugging and is unlikely to be present in a production website.

Affected Versions

7.0.0 to 7.0.93

External References

* [CVE-2019-0221](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2019-0221)

Apache Tomcat Session Fixation Vulnerability

When using FORM authentication with Apache Tomcat 9.0.0.M1 to 9.0.29, 8.5.0 to 8.5.49 and 7.0.0 to 7.0.98 there was a narrow window where an attacker could perform a session fixation attack. The window was considered too narrow for an exploit to be practical but, erring on the side of caution, this issue has been treated as a security vulnerability.

Affected Versions

7.0.0 to 7.0.98

External References

* [CVE-2019-17563](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2019-17563)

Apache Tomcat Insufficiently Protected Credentials Vulnerability

When Apache Tomcat 9.0.0.M1 to 9.0.28, 8.5.0 to 8.5.47, 7.0.0 and 7.0.97 is configured with the JMX Remote Lifecycle Listener, a local attacker without access to the Tomcat process or configuration files is able to manipulate the RMI registry to perform a man-in-the-middle attack to capture user names and passwords used to access the JMX interface. The attacker can then use these credentials to access the JMX interface and gain complete control over the Tomcat instance.

Affected Versions

7.0.0 to 7.0.97

External References

* [CVE-2019-12418](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2019-12418)

Apache Tomcat Insufficient Verification of Data Authenticity Vulnerability

The CORS Filter in Apache Tomcat 9.0.0.M1 to 9.0.0.M21, 8.5.0 to 8.5.15, 8.0.0.RC1 to 8.0.44 and 7.0.41 to 7.0.78 did not add an HTTP Vary header indicating that the response varies depending on Origin. This permitted client and server side cache poisoning in some circumstances.

Affected Versions

7.0.52 to 7.0.78

External References

* [CVE-2017-7674](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2017-7674)

Apache Tomcat Improper Access Control Vulnerability

Remote code execution is possible with Apache Tomcat before 6.0.48, 7.x before 7.0.73, 8.x before 8.0.39, 8.5.x before 8.5.7, and 9.x before 9.0.0.M12 if JmxRemoteLifecycleListener is used and an attacker can reach JMX ports. The issue exists because this listener wasn't updated for consistency with the [CVE-2016-3427](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-3427) Oracle patch that affected credential types.

Affected Versions

7.0.0 to 7.0.72

External References

* [CVE-2016-8735](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-8735)

Apache Tomcat Permissions, Privileges, and Access Controls Vulnerability

The Realm implementations in Apache Tomcat versions 9.0.0.M1 to 9.0.0.M9, 8.5.0 to 8.5.4, 8.0.0.RC1 to 8.0.36, 7.0.0 to 7.0.70 and 6.0.0 to 6.0.45 did not process the supplied password if the supplied user name did not exist. This made a timing attack possible to determine valid user names. Note that the default configuration includes the LockOutRealm which makes exploitation of this vulnerability harder.

Affected Versions

7.0.52 to 7.0.70

External References

* [CVE-2016-0762](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-0762)

Apache Tomcat 7PK - Errors Vulnerability

A bug in the error handling of the send file code for the NIO HTTP connector in Apache Tomcat 9.0.0.M1 to 9.0.0.M13, 8.5.0 to 8.5.8, 8.0.0.RC1 to 8.0.39, 7.0.0 to 7.0.73 and 6.0.16 to 6.0.48 resulted in the current Processor object being added to the Processor cache multiple times. This in turn meant that the same Processor could be used for concurrent requests. Sharing a Processor can result in information leakage between requests including, not not limited to, session ID and the response body. The bug was first noticed in 8.5.x onwards where it appears the refactoring of the Connector code for 8.5.x onwards made it more likely that the bug was observed. Initially it was thought that the 8.5.x refactoring introduced the bug but further investigation has shown that the bug is present in all currently supported Tomcat versions.

Affected Versions

7.0.52 to 7.0.73

External References

* [CVE-2016-8745](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2016-8745)

Apache Tomcat Inconsistent Interpretation of HTTP Requests ('HTTP Request Smuggling') Vulnerability

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.

Affected Versions

7.0.0 to 7.0.99

External References

* [CVE-2020-1935](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-1935)

Apache Tomcat Improper Input Validation Vulnerability

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.

Affected Versions

7.0.0 to 7.0.99

External References

* [CVE-2020-1938](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-1938)

Apache Tomcat Deserialization of Untrusted Data Vulnerability

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.

Affected Versions

7.0.0 to 7.0.100

External References

* [CVE-2020-9484](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-9484)

Apache Tomcat Loop with Unreachable Exit Condition ('Infinite Loop') Vulnerability

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.

Affected Versions

7.0.27 to 7.0.100

External References

* [CVE-2020-13935](http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2020-13935)