



PSN # PSN005964u **Avaya Proprietary – Use pursuant to the terms of your signed agreement or company policy.**

Original publication date: 16-Dec-21. This is issue #06, published date: 16-Mar-22. Severity/risk level High Urgency Immediately

Name of problem PSN005964u – CTSuite Log4j vulnerabilities.

Products affected

CT Suite 3.2, CT Suite 3.3

Problem description

Avaya is aware of the recently identified Apache Log4j vulnerabilities (CVE-2021-44228, CVE-2021-45046, CVE-2021-45105, CVE-2021-44832, CVE-2021-4104) and is conducting impact assessments across its portfolio, identifying opportunities for temporary mitigations, if possible, and developing plans for remediation. Reference the Avaya Product Security - Apache Log4j Vulnerability - Impact for Avaya products on support.avaya.com for updates

Table with 9 columns: CT Suite Version, Elasticsearch version used, Log4j version, JDK version, Vulnerable to remote code execution, Vulnerable to information leakage, Vulnerable to denial of service, Vulnerable to deserialization of untrusted data, Fix available. Rows include versions 2.5-3.1, 3.2, 3.3, 4.0 with corresponding vulnerability status.

Elasticsearch (6.8.9+, 7.8+) used with recent versions of the JDK (JDK9+) is not susceptible to either remote code execution or information leakage. This is due to Elasticsearch’s usage of the Java Security Manager. Most other versions (5.6.11+, 6.4.0+ and 7.0.0+) can be protected via a simple JVM property change. The information leak vulnerability does not permit access to data within the Elasticsearch cluster.

Elasticsearch versions 5.6.11+, 6.4+, and 7.0+ running on JDK8 or below are susceptible to an information leak via DNS which is fixable by following the instructions in the Resolution. The information leak vulnerability does not permit access to data within the Elasticsearch cluster.

Elastic has been updating this announcement below with new details as they emerge from their analysis: Apache Log4j2 Vulnerability - CVE-2021-44228, CVE-2021-45046, CVE-2021-45105 – ESA-2021-31

Please only follow documented procedures described in this PSN to resolve this issue.

This PSN will be updated as more information is available.

Resolution

For Elasticsearch 6.1.2:

Any CT Suite customers on release 3.2 or 3.3 with Elasticsearch version 6.1.2 should upgrade Elasticsearch to version 6.8.23. This version will set a JVM property (Dlog4j2.formatMsgNoLookups=true) and remove the vulnerable JndiLookup class from Log4j out of an abundance of caution. Elasticsearch v6.8.23 is currently available. The update will require Avaya services installation.

Note: Elasticsearch 6.8.23 includes Log4j 2.17.1 which should not trigger false positives in vulnerability scanners.

For Elasticsearch 7.3.x+:

Any CT Suite customers on release 3.3 with Elasticsearch version 7.3.x+ can be protected by applying a simple JVM property change (Dlog4j2.formatMsgNoLookups=true). This change will require Avaya services installation. Ensure this parameter is configured in the startup scripts of the Java Virtual Machine.

Note: False positives may still be triggered by vulnerability scanners. See Avaya support for additional information.

Remarks

PSN Revision History

- Issue 1 – December 16, 2021: Initial publication.
- Issue 2 – December 23, 2021: Update to publication.
- Issue 3 – January 03, 2022: Update to publication.
- Issue 4 – January 06, 2022: Update to publication.
- Issue 5 – January 19, 2022: Update to publication.
- Issue 6 – March 16, 2022: Update to publication.

Patch Notes

The information in this section concerns the patch, if any, recommended in the Resolution above.

Backup before applying the patch

Always

Download

n/a.

Patch install instructions

n/a

Service-interrupting?

Yes

Verification

n/a

Failure

n/a

Patch uninstall instructions

n/a

Security Notes

The information in this section concerns the security risk, if any, represented by the topic of this PSN.

Security risks

Reference <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-44228>

Reference <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45046>

Reference <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45105>

Reference <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-44832>

Reference <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-4104>

Reference <https://logging.apache.org/log4j/2.x/security.html>

Reference <https://discuss.elastic.co/t/apache-log4j2-remote-code-execution-rce-vulnerability-cve-2021-44228-esa-2021-31/291476>

Avaya Security Vulnerability Classification

Reference www.avaya.com/emergencyupdate

Mitigation

As noted in this PSN.

If you require further information or assistance, please contact your Authorized Service Provider or visit support.avaya.com. There you can access more product information, chat with an Agent, or open an online Service Request. Support is provided per your warranty or service contract terms unless otherwise specified in the Avaya support [Terms of Use](#).

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