

Department of the Environment, Climate & Communications



NCSC Alert

SnakeYAML Library RCE vulnerability impacts multiple Atlassian products - CVE-2022-1471 - CVSSv3: 9.8

Thursday 7th December, 2023

STATUS: TLP-CLEAR

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Description

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Vendor: Atlassian Data Center and Server Products

Product: SnakeYAML

CVE Number: CVE-2022-1471

CVSS3.0 Score: 9.8 **EPSS:** 0.712090000

Summary: Multiple Atlassian Data Center and Server Products use the SnakeYAML library for Java, which is susceptible to a deserialization flaw that can lead to RCE (Remote Code Execution).

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.

Atlassian has recommended that you patch each of your affected product installations to the latest version or one of the listed fixed versions below.

More information related to this issue can be found at the following link(s):

- https://confluence.atlassian.com/security/cve-2022-1471-snakeyaml-library-rce-vulnerability-in-multiple-products-1296171009.html
- https://github.com/google/security-research/security/advisories/GHSA-mjmj-j48q -9wg2
- https://bitbucket.org/snakeyaml/snakeyaml/issues/561/cve-2022-1471-vulnerability -in#comment-64581479
- https://www.github.com/mbechler/marshalsec/blob/master/marshalsec.pdf?ra
- https://groups.google.com/g/kubernetes-security-announce/c/mwrakFaEdnc
- https://security.netapp.com/advisory/ntap-20230818-0015/
- http://packetstormsecurity.com/files/175095/PyTorch-Model-Server-Registration-Describing eserialization-Remote-Code-Execution.html
- http://www.openwall.com/lists/oss-security/2023/11/19/1

Products Affected

- Automation for Jira app (including Server Lite edition)
- · Bitbucket Data Center
- · Bitbucket Server
- · Confluence Data Center
- · Confluence Server
- Confluence Cloud Migration App



- · Jira Core Data Center
- Jira Core Server
- Jira Service Management Data Center
- Jira Service Management Server
- · Jira Software Data Center
- Jira Software Server

See https://confluence.atlassian.com/security/cve-2022-1471-snakeyaml-library-rce-vulnerability-in-multiple-products-1296171009.html for further information on products/version affected.

Impact

Common Weakness Enumeration (CWE)1: CWE-20 Improper Input Validation

Present in CISA Known Exploited Vulnerability(KEV) catalog²: NO

Recommendations

The NCSC strongly advises affected organisations to review the latest release notes and install the relevant updates.

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¹https://cwe.mitre.org/

²https://www.cisa.gov/known-exploited-vulnerabilities-catalog

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