

Threat Level

P Red

⊘ CISA: AA23-289A

Hiveforce Labs THREAT ADVISORY

並 VULNERABILITY REPORT

Atlassian Confluence Zero-Day Actively Exploited in the Wild

Date of Publication

Last Update Date

Admiralty Code

TA Number

October 5, 2023

October 18, 2023

A1

TA2023397

Summary

First Seen: October 4, 2023

Affected Products: Confluence Data Center and Confluence Server

Actor: Storm-0062 (aka DarkShadow, Oro0lxy)

Impact: A critical zero-day flaw, identified as CVE-2023-22515, affecting Confluence Data Center and Server instances is being actively exploited. This remotely exploitable vulnerability enables external attackers to create unauthorized Confluence administrator

accounts and gain access to Confluence servers.

☆ CVEs

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	PATCH
CVE-2023- 22515	Atlassian Confluence Broken Access Control Vulnerability	Confluence Data Center and Confluence Server	(>	⊘

Vulnerability Details

- CVE-2023-22515 is a critical Broken Access Control vulnerability that affects on-premise Atlassian Confluence Data Center and Server products. This vulnerability poses a significant security risk because it allows a remote, unauthenticated attacker to compromise the affected system. An attacker can exploit this vulnerability by sending specially crafted requests to the server, which can result in the creation of unauthorized administrative accounts and unauthorized access to the system.
- This vulnerability allows threat actors to change the Confluence server's configuration to indicate that the setup is not complete. They can then use the "/setup/setupadministrator.action" endpoint to create a new administrator user. The vulnerability appears to be triggered via a request on the unauthenticated "/server-info.action" endpoint.

- Instances of Atlassian Confluence that are accessible on the public internet are at heightened risk, with malicious actors exploiting this flaw without requiring any login credentials. Multiple threat actors have been detected conducting data exfiltration using diverse techniques, including cURL, Rclone, and leveraging cloud storage to stage exfiltrated files.
- To effectively mitigate the risk associated with the CVE-2023-22515 vulnerability in Confluence Server or Data Center, it is strongly advised to upgrade to the fixed versions that Atlassian has provided. It's worth noting that versions prior to 8.0.0 are not impacted by this vulnerability. If, for any reason, an immediate upgrade is not possible, Atlassian provides mitigation guidance that should be followed.
- Atlassian recently addressed a range of vulnerabilities in their products, spanning from Remote Code Execution to Denial-of-Service vulnerabilities.

 CVE-2023-22512 impacts Confluence Server, where an unauthenticated attacker can trigger a Denial of Service.

Vulnerabilities

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2023- 22515	Confluence Data Center and Confluence Server Versions-8.0.x, 8.1.x, 8.2.x, 8.3.0, 8.3.1, 8.3.2, 8.4.0, 8.4.1, 8.4.2, 8.5.0, 8.5.1	cpe:2.3:a:atlassian:confluence_serv er_and_data_center:*:*:*:*:*:*	CWE-284

Recommendations

- Apply Patch: Install the security patch provided by Atlassian to address the CVE-2023-22515 vulnerability. These patches shall close the security gap that allows attackers to exploit the vulnerability.
- System Event Monitoring: Utilize automated systems for System Event Monitoring, ensuring constant surveillance of account creation or other critical Confluence system activities in real time. The monitoring platform should be capable of instantly notifying administrators or security teams upon detecting any suspicious activities.
- Limit Service Exposure: Consider limiting service exposure to specific networks, such as VPN or Intranet, to reduce the attack surface and minimize system exposure to potential threats. Additionally, restrict access to /setup/* endpoints on Confluence instances to effectively block known attack vectors.

※ Potential <u>MITRE ATT&CK</u> TTPs

<u>TA0001</u>	<u>TA0042</u>	<u>TA0004</u>	<u>TA0003</u>
Initial Access	Resource Development	Privilege Escalation	Persistence
<u>TA0010</u>	<u>T1068</u>	<u>T1588</u>	<u>T1588.006</u>
Exfiltration	Exploitation for Privilege Escalation	Obtain Capabilities	Vulnerabilities
<u>T1190</u>	<u>T1078</u>	<u>T1136</u>	<u>T1567</u>
Exploit Public-Facing	Valid Accounts	Create Account	Exfiltration Over Web
Application			Service
T1567.002			Service

✗ Indicators of Compromise (IOCs)

ТҮРЕ	VALUE
IPv4	170.106.106[.]16, 43.130.1[.]222, 152.32.207[.]23, 199.19.110[.]14, 192.69.90[.]31, 104.128.89[.]92, 23.105.208[.]154, 199.193.127[.]231

Patch Details

It is recommended to update to the latest version of Atlassian Confluence products which addresses the CVE-2023-22515. Atlassian have fixed this vulnerability in following versions.

8.3.3 or later

8.4.3 or later

8.5.2 (Long Term Support release) or later

Patch Link:

https://www.atlassian.com/software/confluence/download-archives

Atlassian has also provided mitigation steps to decrease the likelihood of exploitation. Refer to the following link for detailed mitigation instructions.

Mitigation Link:

https://confluence.atlassian.com/security/cve-2023-22515-privilege-escalation-vulnerability-in-confluence-data-center-and-server-1295682276.html

References

https://confluence.atlassian.com/security/cve-2023-22515-privilege-escalation-vulnerability-in-confluence-data-center-and-server-1295682276.html

https://www.cisa.gov/news-events/cybersecurity-advisories/aa23-289a

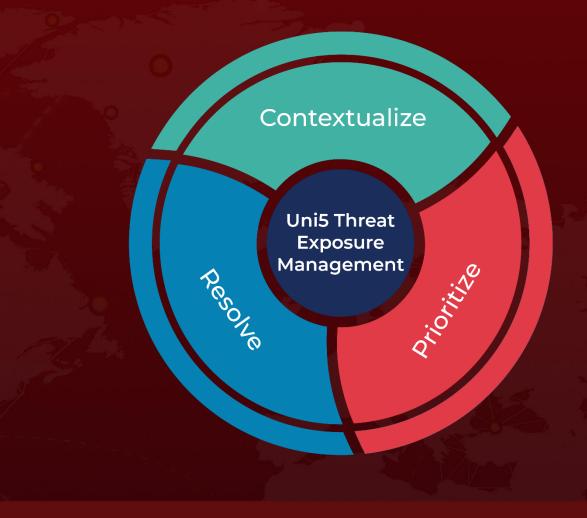
https://www.hivepro.com/critical-security-vulnerabilities-discovered-in-atlassian-products/

https://twitter.com/MsftSecIntel/status/1711871732644970856

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October 5, 2023 6:50 AM

