

Threat Level

HiveForce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

Atlassian's Latest Critical Confluence Flaw Poses Risk of Data Loss

Date of Publication

Last Update Date

Admiralty Code

TA Number

November 01, 2023

November 16, 2023

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TA2023442

Summary

First Discovered: October 31, 2023

CVEC

Affected Product: Confluence Data Center, Confluence Server

Impact: A critical vulnerability identified in Atlassian as CVE-2023-22518 which pertains to be an improper authorization issue in Confluence Data Center and Server, exploiting the vulnerability allows unauthorized users to reset and create a Confluence instance administrator account. The Cerber ransomware group has been observed exploiting this flaw.

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	РАТСН
CVE-2023- 22518	Atlassian Confluence Improper Authorization Vulnerability	Confluence Data Center, Confluence Server	8	>	>

Vulnerability Details

CVE-2023-22518 is a critical security vulnerability that Atlassian has identified in Confluence Data Center and Server. It involves an improper authorization issue that, if successfully exploited has the potential to result in significant data loss.

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The vulnerability CVE-2023-22518 which can be exploited by a remote, unauthenticated attacker by sending specially crafted requests to the server, an attacker can bypass the authorization process and gain unauthorized access, potentially leading to data modification on the system.

In November, the Cerber ransomware has been observed utilizing the CVE-2023-22518 vulnerability as part of its attack routine. In this infection chain, the threat actor gains access through the vulnerability, executing an encoded PowerShell command to download and execute a remote payload.

The PowerShell script downloads a malicious text file from a command-andcontrol server, revealing the Cerber ransomware payload. The script executes the decoded payload, encrypts files, and drops a ransom note. Multiple Linux bash files were also downloaded from the same IP address.

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System administrators are strongly advised to take immediate action and upgrade to the fixed version of Confluence Data Center and Server to address this critical vulnerability (CVE-2023-22518). It's essential to act swiftly, as previously discovered vulnerability in the software <u>CVE-2023-22515</u>, have also been exploited by threat actors in the past.

Vulnerabilities

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID	
CVE-2023-	Confluence Data Center	cpe:2.3:a:atlassian:confluence_server_	CWE-285	
22518	and Server 6.0.1 - 8.6.0	and_data_center:8.6.0:*:*:*:*:*:*:*		

Recommendations

Apply Patch: Install the security patch provided by Atlassian to address the CVE-2023-22518 vulnerability. This patch closes the security gap that allows attackers to exploit the vulnerability.



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Least Privilege: Adhere to the idea of "least privilege" by giving users only the essential permissions they need for their tasks. This strategy reduces the effects of vulnerabilities related to privilege escalation.

Conduct Regular Backup: Establish routine backups for all assets, ensuring they receive proper protection. Implement the 3-2-1-1 backup principle and deploy dedicated tools to guarantee backup integrity and availability.



Potential <u>MITRE ATT&CK</u> TTPs

TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	TA0004 Privilege Escalation	
TA0011 Command and Control	TA0040 Impact	T1190 Exploit Public-Facing Application	<u>T1588</u> Obtain Capabilities	10110
T1588.006 Vulnerabilities	T1485 Data Destruction	T1059 Command and Scripting Interpreter	T1059.001 PowerShell	10100 101101
T1078 Valid Accounts		0 1 0 0 0 0 0 0 1 1 1 0 1 0 1 0 1 0 1 0	0101101011 0100000011	000101

Indicators of Compromise (IOCs)

ТҮРЕ	VALUE		
IP	193.187.172[.]73		
URL	hxxp://193.176[.]179[.]41/tmp.37		

SS Patch Link

It is recommended to update to the latest version of Atlassian Confluence Data Center and Server which addresses the CVE-2023-22518. Atlassian have fixed this vulnerability in following versions.

7.19.16 or later 8.3.4 or later 8.4.4 or later 8.5.3 or later 8.6.1 or later

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

Stress References

https://confluence.atlassian.com/security/cve-2023-22518-improper-authorizationvulnerability-in-confluence-data-center-and-confluence-server-1311473907.html

https://www.hivepro.com/atlassian-confluence-zero-day-actively-exploited-in-the-wild/

https://www.trendmicro.com/en_us/research/23/k/cerber-ransomware-exploits-cve-2023-22518.html

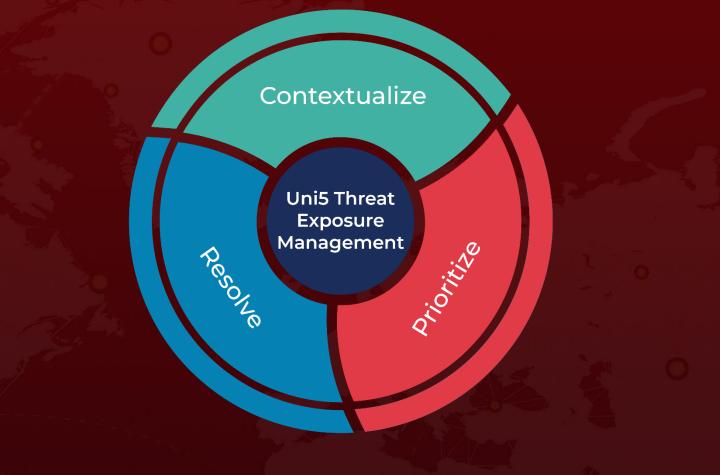
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