

Hiveforce Labs

THREAT ADVISORY

並 VULNERABILITY REPORT

Cisco SSM On-Prem Flaw Lets Hackers Hijack User Passwords

Date of Publication

August 9, 2024

Admiralty Code

A1

TA Number

TA2024306

Summary

First Seen: July 2024

Affected Products: Cisco Smart Software Manager On-Prem (SSM On-Prem)

Impact: Cisco has addressed a critical vulnerability, CVE-2024-20419, which could allow attackers to change any user's password, including administrators, on vulnerable SSM On-Prem servers. Cisco has also issued a warning that exploit code for this maximum-severity flaw is now publicly available, increasing the urgency for affected organizations to apply the patch.

⇔ CVE

CVE	NAME	AFFECTED PRODUCTS	ZERO- DAY	CISA	PATCH
CVE-2024- 20419	Cisco Smart Software Manager On-Prem Password Change Vulnerability	Cisco Smart Software Manager On-Prem (SSM On- Prem)	×	*	(

Vulnerability Details

- A critical vulnerability, identified as CVE-2024-20419, has been discovered in Cisco's Smart Software Manager On-Prem (SSM On-Prem), which permits unauthenticated remote attackers to alter user passwords, including those of administrative users. This flaw presents a significant security threat, underscoring the necessity for immediate action to prevent potential exploitation.
- The Cisco Smart Software Manager On-Prem (SSM On-Prem) license server is a vital component of Cisco's Smart Licensing ecosystem. It operates in tandem with the cloud-based Cisco Smart Software Manager to facilitate the intelligent management of customer product licenses, providing near-real-time visibility and reporting on license acquisition and usage.

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The root cause of the vulnerability is the lack of proper validation of the old password before setting a new one. This weakness allows remote attackers to send malicious HTTP requests, potentially gaining unauthorized access to the web UI or API with the compromised user's privileges. No workarounds are currently available for affected systems, making it imperative for administrators to upgrade to a fixed release to secure their vulnerable SSM On-Prem servers. The existence of proof-of-concept exploit code further elevates the urgency of applying the necessary patches.

Vulnerability

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2024- 20419	Cisco SSM On-Prem: Version 8- 202206 and earlier	cpe:2.3:a:cisco:smart_so ftware_manager_on- prem:8- 202206:*:*:*:*:*:*	CWE-620

Recommendations



Update: To mitigate the risk associated with CVE-2024-20419, users are strongly urged to upgrade Cisco SSM On-Prem to version 8-202212. This update addresses the vulnerability and enhances the overall security.



Monitoring Password Change Activities: Continuously monitor system and application logs for password change events. Set up alerts for anomalies, such as multiple password changes within a short period or changes outside of normal working hours. Conduct periodic audits of password change logs to detect any irregularities or patterns that could indicate malicious activity.



Limit Exposure: Restrict access to critical systems and endpoints to minimize potential attack vectors. Implement strict network access controls to ensure that only authorized users and systems can interact with sensitive components.

Potential MITRE ATT&CK TTPs

TA0042 Resource Development	TA0001 Initial Access	TA0004 Privilege Escalation	TA0006 Credential Access
T1190 Exploit Public-Facing Application	T1068 Exploitation for Privilege Escalation	T1588 Obtain Capabilities	T1588.006 Vulnerabilities

SPATCH Details

Users are strongly urged to upgrade their Cisco SSM On-Prem to version 8-202212. This update addresses the CVE-2024-20419 and enhances the overall security.

Link:

https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sacssm-auth-sLw3uhUy#fs

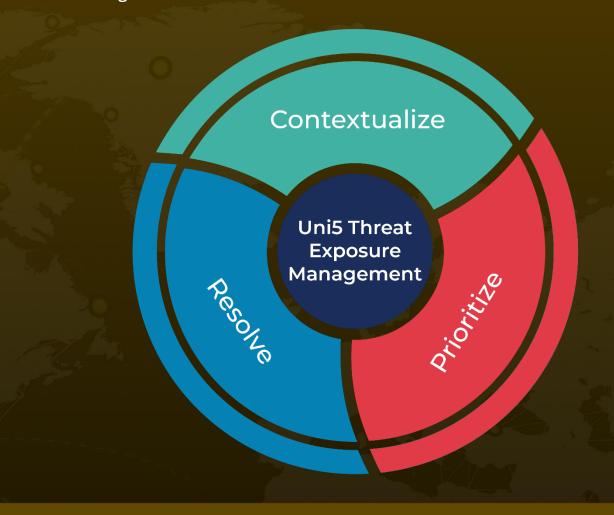
References

 $\underline{https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sacusm-auth-sLw3uhUy}$

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