

Threat Level

# HiveForce Labs THREAT ADVISORY



## Akira Ransomware Exploits Cisco Flaw for Maximum Impact

Date of Publication

February 19, 2024

Admiralty Code

TA Number TA2024064

A2

# Summary

Attack Commenced: January 2024 Malware: Akira Ransomware Attack Region: United States, Romania, Argentina, Canada, Taiwan, Netherlands, Italy, Brazil, United Kingdom, Australia, Germany Targeted Industries: Automotive, Manufacturing, Education, Technology, Internet Software and services, Professional Services, Design, Legal, Hospitality, Financial, Travel,

Telecommunications, Real Estate, Retail, Charitable Organizations, Pharmaceutical, Environmental Contracting, Construction and engineering, Transportation, Agriculture, Energy, Packaging

**Attack:** The Akira ransomware has been identified for utilizing the Cisco AnyConnect SSL VPN as its initial access vector, specifically exploiting the CVE-2020-3259 vulnerability. Despite Cisco addressing this vulnerability with patches released in May 2020, the threat remains prevalent.

#### **X** Attack Regions

#### ☆ CVEs

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CVE	NAME	AFFECTED PRODUCT	ZERO- DAY	CISA KEV	РАТСН
CVE-2020- 3259	Cisco ASA and FTD Information Disclosure Vulnerability	Cisco Adaptive Security Appliance (ASA) and Firepower Threat Defense (FTD)	8	8	<b>S</b>

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# **Attack Details**

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The Akira ransomware was deployed, utilizing the Cisco AnyConnect SSL VPN as the initial access vector. For this vulnerability to be exploited, the device with the susceptible software must have the AnyConnect SSL VPN enabled on the interface exposed to potential attackers.

The identified vulnerability is CVE-2020-3259, an information disclosure issue that could potentially allow an attacker to retrieve the contents of the device's memory. Additionally, it is a common modus operandi for attackers to exploit the same device multiple times, thereby gaining access to various segments of the memory content. Cisco addressed this vulnerability through patches released in May 2020.

Over the <u>past year</u>, actors associated with the Akira ransomware have weaponized multiple vulnerable Cisco AnyConnect SSL VPN appliances. Exploiting this vulnerability allows attackers to extract sensitive data from the memory of affected devices, including usernames and passwords.

Notably, Akira and Lockbit ransomware groups are actively attempting to breach Cisco ASA SSL VPN devices by exploiting several older vulnerabilities, some of which have had patches available since 2020 and 2023. System administrators are strongly advised to upgrade to the latest ASA release on all devices featuring the AnyConnect SSL VPN, especially those with an internet-exposed interface.

## Recommendations



**Immediate Patching:** System administrators are strongly advised to apply the patches released by Cisco to address the CVE-2020-3259 vulnerability in the AnyConnect SSL VPN. Patching is crucial to prevent potential exploits by Akira and other ransomware groups.



**Enable Multi-Factor Authentication (MFA):** Implement MFA across all accounts and services, with a particular emphasis on Client VPN connections. This adds a layer of security, making it more challenging for unauthorized access.



**Data Backups:** Implement frequent backups for all assets to ensure their complete safety. Implement the 3-2-1-1 backup structure and use specialized tools to provide backup resilience and accessibility.



**Anomaly Detection:** Implement anomaly detection algorithms to identify deviations from normal network behavior. This includes monitoring network traffic, system logs, and user activities for any unusual patterns.



**Implement Network Security Measures:** Employ robust network security measures, including firewalls and intrusion detection/prevention systems, to help prevent unauthorized access and the spread of ransomware within the network.

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

TA0043 Reconnaissance	TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	110
TA0003 Persistence	TA0004 Privilege Escalation	TA0005 Defense Evasion	TA0007 Discovery	1011
TA0011 Command and Control	TA0040 Impact	T1588.006 Vulnerabilities	<b>T1596</b> Search Open Technical Databases	010 0000
<b>T1190</b> Exploit Public-Facing Application	<b>T1486</b> Data Encrypted for Impact	T1027 Obfuscated Files or Information	<u><b>T1036</b></u> Masquerading	
<u><b>T1562</b></u> Impair Defenses	T1059 Command and Scripting Interpreter	<b>T1041</b> Exfiltration Over C2 Channel	T1082 System Information Discovery	011 0101
<u><b>T1057</b></u> Process Discovery	T1055 Process Injection	<b>T1490</b> Inhibit System Recovery	1011010110	

### **X** Indicators of Compromise (IOCs)

ТҮРЕ	VALUE
TYPE	VALUE         d5558ec7979a96fe1ddcb1f33053a1ac3416a9b65d4f27b5cc9fd0a81         6296184,         2db4a15475f382e34875b37d7b27c3935c7567622141bc203fde7fe6         02bc8643,         99c1cd740fa749a163ce8cdf93722191c4ba5d97de81576623a8bbcb         622473d6,         ca651d0eb676923c3b29190f7941d8d2ac8f14e4ad6c26c466069bbc         59df4d1d,         c9a1d8240147075cb7ffd8d568e6d3c517ac4cfdddccd5bb37857e7bd         e6d2eb7,         2727c73f3069457e9ad2197b3cda25aec864a2ab8da3c2790264d06e         13d45c3d,         678ec8734367c7547794a604cc65e74a0f42320d85a6dce20c214e3b
SHA256	4536bb33, 77fe1619aa07d2ab169a2fa23feb22d7433bf07e856cda1402cf60205 beddd7f, f1f82d3b62f92f4fe8af320afea6c346210bb51774bb1567149e308469 d40c92, ffcddd8544bca0acde69f49abd1ea9dbee5f4eb73df51dd456b401c04 5a0b6af, aca0f5e76dacc4b9145c17a25a639aeb2e4cf76b7859bcb27224c42e4 04013a2, 08207409e1d789aea68419b04354184490ce46339be071c6c185c75
	ob2074050107854264033541844300ce4033556071000185073         ab9d08cba,         ee0a27f3de6f21463f8125dbfc95268ff995ef8ea464660d67cf9f77e24         0e1ab,         030db5fb2a639b0c1a63bbd209bd1f043dbc4dbb306102f1726cdd4a         6500fb83,         b7bbfb66338a3413f981561115bd8ef8a4014479bcc320de563499cfc         73a3de2,         58e9cd249d947f829a6021cf6ab16c2ca8e83317dbe07a294e2035bb         904d0cf3,         56f1014eb2d145c957f9bc0843f4e506735d7821e16355bcfbb6150b         1b5f39db,         6270cef0c8cc45905556c40c9273391d71ef8d73c865d44d2254a8a4         943ae5b4,
	5009343ce7e6e22a777b22440480fe2eb26098d4a2ecc62e6df44988 19e26b5c

#### Signate Patch Link

https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco -sa-asaftd-info-disclose-9eJtycMB

#### Recent Breaches

https://www.bramauto.com https://www.asam.com https://www.nekoosaschools.org https://www.sanokrubber.com https://www.distecna.com https://www.terago.ca https://www.aver.com https://www.celeste.com https://www.vcsobservation.com https://www.gruskingroup.com https://www.borahgoldstein.com https://www.riverscasino.com https://www.sefin.com https://www.safeplating.com https://www.castilleja.org https://www.getawaytoday.com https://www.valleytelecomgroup.com https://www.brazilianbusinesspark.com https://www.ani-networks.com https://www.lush.com https://www.torontozoo.com https://www.dirigsheetmetal.com https://www.wilhoitproperties.com https://www.cryopak.com https://www.milestoneenvironmentalcontracting.com https://www.hmhonline.org https://www.hydratek.com https://www.denhamthejeanmaker.com https://www.tgstransportation.com https://www.bestwaysales.com https://www.premiumguard.com https://www.beckerlogistics.com https://www.nissan.com.au https://www.vincentznetwork.com https://www.blackburn.ac.uk https://www.viridi.energy https://www.itopallpackgruppen.com https://www.hellerindustries.com https://www.vanburenschools.net

#### Stress References

https://www.truesec.com/hub/blog/akira-ransomware-and-exploitation-of-ciscoanyconnect-vulnerability-cve-2020-3259

https://www.hivepro.com/threat-advisory/new-wave-of-akira-ransomware-expandsarsenal-with-cisco-vpn-flaws/

# What Next?

At **<u>Hive Pro</u>**, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

Book a free demo with <u>HivePro Uni5</u>: Threat Exposure Management Platform.

#### Contextualize Unis Threat Broomer Description Descrip

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