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THREAT ADVISORY



Denial-of-service vulnerability in PAN-OS exploited-in-the-wild

Date of Publication

Admiralty Code

TA Number

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A1

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Summary

The URL filtering policy misconfiguration in PAN-OS leads to a vulnerability that could allow an unauthenticated remote attacker to conduct distributed denial-of-service(DDoS) attacks. This vulnerability has been tracked as CVE-2022-0028.

♦ CVEs Table

CVE	NAME	PATCH
CVE-2022-0028	PAN-OS: Reflected Amplification Denial-of- Service (DoS) Vulnerability in URL Filtering	⊗

♦ Potential MITRE ATT&CK TTPs

TA0040 Impact	T1498 Network Denial of Service	T1498.002 Network Denial of Service: Reflection Amplification	TA0005 Defense Evasion	
T1027 Obfuscated Files or Information	00000			

Technical Details

#1

It is only possible to exploit these vulnerable versions of PAN-OS if the following three conditions are met:

- 1. The security policy on the firewall that allows traffic to pass from Zone A to Zone B includes a URL filtering profile with one or more blocked categories.
- Packet-based attack protection is not enabled in a Zone Protection profile for Zone A, including both (Packet Based Attack Protection > TCP Drop > TCP Syn With Data) and (Packet Based Attack Protection > TCP Drop > Strip TCP Options > TCP Fast Open).
- Flood protection through SYN cookies is not enabled in a Zone Protection profile for Zone A (Flood Protection > SYN > Action > SYN Cookie) with an activation threshold of 0 connections.
- #2

By exploiting the vulnerability, an attacker could obfuscate their original IP address and make remediation more difficult. Attackers could use these attacks for extortion or disrupt a company's business operations.

#3

Though exploitation of this issue does not impact the confidentiality, integrity, or availability of your firewall or appliance, the resulting denial-of-service (DoS) attack can potentially result in a loss of availability for the attacker-specified target if that target lacks sufficient DoS protection.

Vulnerability Details

CVE ID		AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2022-00)28	Palo Alto PAN-OS: 8.1 - 8.1.23, 9.0 - 9.0.16-hf, 9.1 - 9.1.14-h1, 10.0.0 - 10.0.11, 10.1.0 - 10.1.6, 10.2.0 - 10.2.2	cpe:2.3:o:palo_al to_networks:pan-os:*:*:*:*:*:*	CWE-406

S Patch Details

Upgrade to Palo Alto PAN-OS versions above 10.2.2-h2, 10.1.6-h6, 10.0.11-h1, 9.1.14-h4, 9.0.16-h3, 8.1.23-h1

References

https://security.paloaltonetworks.com/CVE-2022-0028

What Next?

Book a free demo with <u>HivePro Uni5</u> to check your exposure to this advisory. HivePro Uni5 is a Threat Exposure Management Solution that proactively reduces an organization's attack surface before it gets exploited.



At Hive Pro we take a long hard look at your vulnerabilities so you can bolster your defenses and fine-tune your offensive cybersecurity tactics.

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