



# CYBER ADVISORY

**Cal OES**  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

**CALIFORNIA CYBERSECURITY INTEGRATION CENTER**



CYBER ADVISORY

**TLP: CLEAR**  
27 February 2025

## Active Exploitation of PAN-OS Vulnerabilities

Palo Alto Networks

Exploited in the wild

POC

Chained Vulnerabilities

The California Cybersecurity Integration Center (Cal-CSIC) has identified ongoing exploitation of multiple vulnerabilities leveraged against Palo Alto Networks PAN-OS products. With the most recent vulnerability, CVE-2025-0110, containing a CVSS 3 score of 7.2. This vulnerability, when chained with CVE-2025-0108, CVE-2024-0111, CVE-2024-9474, allows an attacker to gain root access and ultimately perform root privilege actions on the firewall. These root privilege actions include reconfiguring firewalls, exfiltrating sensitive data, or deploying persistent backdoors.<sup>1</sup> Furthermore, Google researchers have released a Proof-of-Concept of this attack chain.<sup>2</sup> These vulnerabilities are recognized in CISA's Known Exploited Vulnerabilities Catalog (KEV) and by Palo Alto.<sup>3</sup>

Additional details on the three above vulnerabilities that are chained with CVE-2025-0110 can be found in Cal-CSIC's advisory titled "Chained Vulnerabilities Exploit Privilege Escalation in PAN-OS" (CAL-CSIC-202502-004).

The Cal-CSIC recommends immediately applying the appropriate updates provided by Palo Alto Networks to vulnerable systems.

For more information on applying the security updates please refer to the [PAN-OS Upgrade Guide](#)

### Organization, Source, Reference, and Dissemination Information

#### Organization Description

California Government Code § 8586.5 established the California Cybersecurity Integration Center (Cal-CSIC) as the central organizing hub of state government's cybersecurity activities, including information sharing, intelligence analysis, incident response, and overarching cybersecurity strategy. The Cal-CSIC is responsible for reducing the likelihood and severity of cyber incidents that could damage California's economy, critical infrastructure, and public or private sector networks in our state.

CAL-CSIC-202502-005

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<sup>1</sup> Cyber Security News; “Google Released PoC Exploit For Palo Alto Firewall Command Injection Vulnerability” <https://cybersecuritynews.com/palo-alto-networks-warns-hackers-combining-vulnerabilities/>; accessed 26 February 2025

<sup>2</sup> GitHub; “PaloAlto OpenConfig Plugin: Command Injection Vulnerability” <https://github.com/google/security-research/security/advisories/GHSA-73px-m3vw-mr35>; accessed 26 February 2025

<sup>3</sup> CISA; “Known Exploited Vulnerabilities Catalog” <https://www.cisa.gov/known-exploited-vulnerabilities-catalog>; accessed 26 February 2025

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