Strategic Security Review

Created for Acme Financial
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Readout

1. The VulnCheck Value
2. What was found
3. Why it matters
4. Prioritized Action Plan
5. VulnCheck Enrichment

Overview

Acme Financial Provided VulnCheck with a subset of CPEs that are representative of devices they own and maintain.

Request: Assess CVEs associated with the provided CPEs. Provide feedback, recommendations and next steps based on documented results.

The VulnCheck Value

Risk Reduction

- Prioritize vulnerabilities based on **real exploitation evidence**
- Focus remediation efforts on **what actually matters**
- Provide **clear evidence to leadership and auditors** on the WHY

Vulnerability Management

- Shift from a reactive to approach to **proactive strategic risk control** cadence
- Enables **risk based decision making** to filter out noise
- Measurable improvements in **MTTR for exploited vulnerabilities**

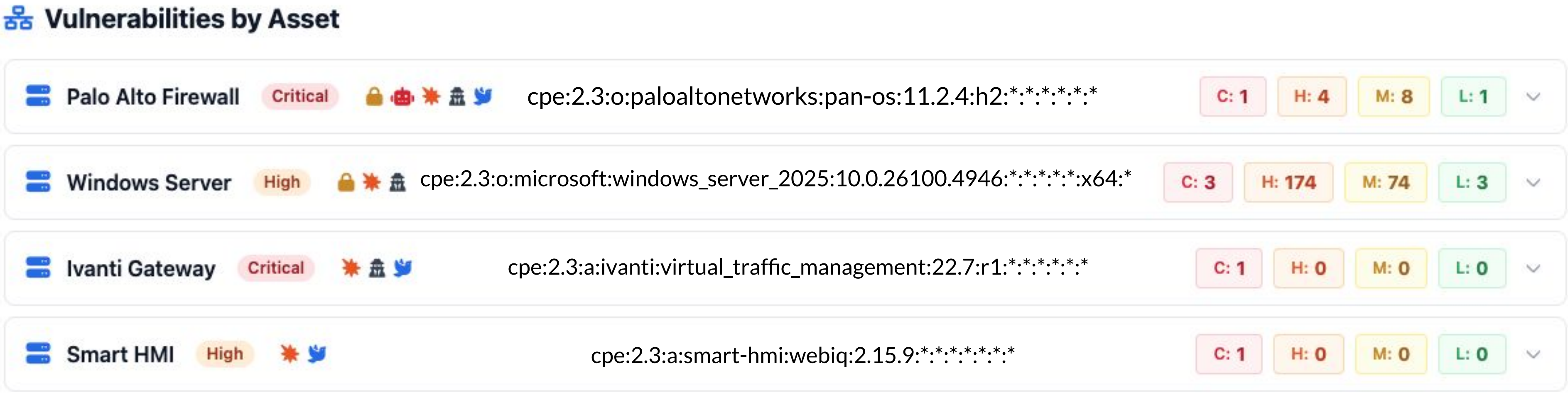
Early Warning

- Receive **early warning signals** when vulnerabilities move from disclosure to exploitation
- **Near real-time intelligence** allows teams to stay ahead of adversaries and focus on what matters
- **Prioritized intelligence** on critical banking assets

Operational Alignment

- **Integrates into existing workflows** rather than requiring new processes
- **Align security, IT, Engineering and GRC** with the same prioritized risk signals
- Translates technical vulnerabilities into **clear, exploitation-driven narratives**

What was Found



Vulnerabilities by Asset

Palo Alto Firewall	Critical	cpe:2.3:o:paloaltonetworks:pan-os:11.2.4:h2:*:*:*:*:*:*	C: 1	H: 4	M: 8	L: 1
Windows Server	High	cpe:2.3:o:microsoft:windows_server_2025:10.0.26100.4946:*:*:*:*:*:x64:*	C: 3	H: 174	M: 74	L: 3
Ivanti Gateway	Critical	cpe:2.3:a:ivanti:virtual_traffic_management:22.7:r1:*:*:*:*:*:*	C: 1	H: 0	M: 0	L: 0
Smart HMI	High	cpe:2.3:a:smart-hmi:webiq:2.15.9:*:*:*:*:*:*:*	C: 1	H: 0	M: 0	L: 0

Why it Matters

Not all vulnerabilities are equal.

The highlighted vulnerabilities are being activated exploited by adversaries and and have an EPSS score of over 60%. This means that there is a strong possibility you will experience an attack in the next 30 days for each of these CVEs.

Out of over 270 open vulnerabilities associated with the provided devices, the 5 below represent real, present risk to the organization and should be prioritized for remediation / mitigation efforts.

Palo Alto Firewall

CVE-2024-0012
CVE-2025-0108

Ivanti Gateway

CVE-2024-7593

Windows Server

CVE-2025-59287

Smart Workstation

CVE-2024-8752

CVEs

Palo Alto Firewall

- `CVE-2024-0012` - An authentication bypass in Palo Alto Networks PAN-OS software enables an unauthenticated attacker with network access to the management web interface to gain PAN-OS administrator privileges to perform administrative actions, tamper with the configuration, or exploit other authenticated privilege escalation vulnerabilities

- `CVE-2025-0108`- An authentication bypass in the Palo Alto Networks PAN-OS software enables an unauthenticated attacker with network access to the management web interface to bypass the authentication otherwise required by the PAN-OS management web interface and invoke certain PHP scripts. While invoking these PHP scripts does not enable remote code execution, it can negatively impact integrity and confidentiality of PAN-OS.

CVEs

Smart Workstation

- **`CVE-2024-8752`** - The Windows version of WebIQ 2.15.9 is affected by a directory traversal vulnerability that allows remote attackers to read any file on the system.

CVEs

Ivanti Gateway

- `CVE-2024-7593` - Incorrect implementation of an authentication algorithm in Ivanti vTM other than versions 22.2R1 or 22.7R2 allows a remote unauthenticated attacker to bypass authentication of the admin panel.

CVEs

Windows Servers

- **`CVE-2025-59287`** - Deserialization of untrusted data in Windows Server Update Service allows an unauthorized attacker to execute code over a network.

Prioritized Action Plan

1

Palo Alto Firewall

- Update WAF rules
- Immediately patch or upgrade device
- Verify mgmt interface is only available on the internal network and only to trusted IPs
- Review logs for signs of exploitation
- Reset passwords
- Update signatures to monitor for IOCs

2

Ivanti Gateway

- Update WAF rules
- Immediately patch or upgrade device
- Verify mgmt interface is only available on the internal network and only to trusted IPs
- Review logs for signs of exploitation / unauthenticated access
- Reset passwords
- Update signatures to monitor for IOCs

3

Windows Servers

- Verify WSUS server role is disabled
- **If WSUS is NOT disabled** Block inbound traffic on ports 8530, 8531
- Patch server with October 23, 2025 OOB update ASAP

4

Smart HMI

- Review ACLs to include directory traversal mitigations
- Verify the PURDUE model for OT access is followed
- Review access policies if connected to enterprise network

VulnCheck Enrichment

- **Out of 270 vulnerabilities, our VulnCheck platform provided intelligence to understand which CVEs have active exploits in the wild**
- **Provided exploit enrichment on each CVE to understand TRUE RISK back to the organization**
  - Active intelligence on Ransomware, Botnets, Threat Actors and more
  - Links to actual POCs and Exploits of the relevant CVEs
  - Canary data to capture early warning of rising exploits against relevant CVEs
- **Provides EPSS Scoring and the Evidence Based Vulnerability Prioritization model to accurately and empirically prioritize vulnerability risk**
- **Aggregated CVE Data from thousands of disclosure sources for up-to-date**

Thank you.