

CVE-2025-22224, CVE-2025-22225 and CVE-2025-22226: MULTIPLE SEVERE VULNERABILITIES IN VMware

Vairav CVE Report

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EXECUTIVE SUMMARY

Multiple vulnerabilities—CVE-2025-22224, CVE-2025-22225, and CVE-2025-22226—have

been identified in VMware products, including ESXi, Workstation, and Fusion. The most

severe, CVE-2025-22224, allows for code execution with a CVSS score of 9.3. Exploitation of

these vulnerabilities could lead to system compromise and information disclosure.

VULNERABILITY DETAILS

CVE-2025-22224

• **Description:** A Time-of-Check Time-of-Use (TOCTOU) vulnerability leading to an

out-of-bounds write. An attacker with local administrative privileges on a virtual

machine could exploit this to execute code as the VMX process on the host.

• Impact: Potential for attackers to execute arbitrary code on the host system, leading

to full system compromise.

• **CVSS Score:** 9.3 (Critical)

CVE-2025-22225

Description: An arbitrary write vulnerability where an attacker with privileges

within the VMX process could escape the sandbox environment.

• Impact: Allows attackers to execute code outside the virtual machine, potentially

compromising the host system.

• **CVSS Score:** 8.2 (High)

CVE-2025-22226

Description: An out-of-bounds read in the Host Guest File System (HGFS) that could

leak memory from the VMX process.

• Impact: Attackers could access sensitive information from the host system's

memory.

• **CVSS Score:** 7.1 (High)



AFFECTED VERSIONS

• VMware ESXi: Versions 7.0 and 8.0

VMware Workstation: Version 17.x

• VMware Fusion: Version 13.x

• VMware Cloud Foundation: Versions 4.x and 5.x

• VMware Telco Cloud Platform: Versions 2.x, 3.x, 4.x, and 5.x

VMware Telco Cloud Infrastructure: Versions 2.x and 3.x

EXPLOIT DETAILS

These vulnerabilities have been exploited in the wild, particularly affecting environments where VMware products are used for virtualization. Attackers with administrative access to a virtual machine can exploit these flaws to execute code on the host system, escape the sandbox and leak memory ultimately leading to potential system compromise and data breaches.

RECOMMENDED ACTIONS

Patch & Upgrade:

Upgrade to the latest VMware versions:

- VMware ESXi 8.0: Update to ESXi80U3d-24585383 or ESXi80U2d-24585300
- VMware ESXi 7.0: Update to ESXi70U3s-24585291
- VMware Workstation 17.x: Update to version 17.6.3
- VMware Fusion 13.x: Update to version 13.6.3
- VMware Cloud Foundation 5.x: Apply async patch to ESXi80U3d-24585383
- VMware Cloud Foundation 4.x: Apply async patch to ESXi70U3s-24585291
- VMware Telco Cloud Platform 5.x, 4.x, 3.x, 2.x: Update to ESXi 7.0U3s, ESXi 8.0U2d, and ESXi 8.0U3d.
- VMware Telco Cloud Infrastructure 3.x, 2.x: Update to ESXi 7.0U3s.



ADDITIONAL SECURITY MEASURES

- **Restrict Administrative Access:** Limit administrative privileges on virtual machines to trusted users only.
- **Network Segmentation:** Isolate critical systems and services to minimize potential attack vectors.
- Regular Monitoring: Implement continuous monitoring to detect and respond to unauthorized activities promptly.

REFERENCES

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