مجلس الأمن السيبراني
CYBER SECURITY COUNCIL
United Arab Emirates

Security Updates - NVIDIA

Tracking #:432318325

Date:29-01-2026

EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that NVIDIA has released security updates to address multiple vulnerabilities in its products.

TECHNICAL DETAILS:

NVIDIA has released security updates to address multiple high-severity vulnerabilities affecting NVIDIA GPU Display Drivers, vGPU Software, HD Audio Drivers, and Cloud Gaming components. These vulnerabilities could allow a local authenticated attacker to achieve arbitrary code execution, privilege escalation, information disclosure, data manipulation, or denial of service.

Vulnerability Details:

High-Severity Vulnerabilities

- **CVE-2025-33217**
  A use-after-free vulnerability in the NVIDIA Display Driver for Windows. Successful exploitation could result in code execution, privilege escalation, data tampering, denial of service, or information disclosure.
- **CVE-2025-33218**
  An integer overflow vulnerability in the Windows kernel-mode driver (nvlddmkm.sys). Exploitation may allow code execution, privilege escalation, denial of service, or information disclosure.
- **CVE-2025-33219**
  An integer overflow or wraparound vulnerability in the NVIDIA kernel module for Linux systems. Successful exploitation may result in code execution, privilege escalation, data tampering, denial of service, or information disclosure.
- **CVE-2025-33220**
  A use-after-free vulnerability in the NVIDIA vGPU Virtual GPU Manager that could be exploited by a malicious guest system, potentially leading to code execution, privilege escalation, or denial of service.

Medium-Severity Vulnerability

- **CVE-2025-33237**
  A NULL pointer dereference vulnerability in the NVIDIA HD Audio Driver for Windows that could allow a local attacker to cause a denial of service.

Affected Products

- NVIDIA GPU Display Driver for **Windows and Linux**
- NVIDIA vGPU Software (Guest Drivers and Virtual GPU Manager)
- NVIDIA HD Audio Driver for **Windows**
- NVIDIA Cloud Gaming Software

Affected driver branches include **R535, R570, R580, and R590**, along with earlier supported releases.

Note: Refer to the official NVIDIA advisory for the complete list of affected products and recommended mitigations.

RECOMMENDATIONS:

The UAE Cyber Security Council recommends updating the affected versions to the fixed or latest

versions released by NVIDIA.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- https://nvidia.custhelp.com/app/answers/detail/a_id/5747