



مجلس الأمن السيبراني
CYBER SECURITY COUNCIL



Security Updates – NVIDIA

Tracking #:432316429

Date:23-10-2024

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EXECUTIVE SUMMARY:

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

TECHNICAL DETAILS:

NVIDIA has released security updates for its GPU Display Driver and vGPU software to address multiple high-severity vulnerabilities. These vulnerabilities, if exploited, could lead to code execution, denial of service, escalation of privileges, information disclosure, and data tampering. The most severe vulnerability (CVE-2024-0126) has a CVSS base score of 8.2.

Vulnerability Details

NVIDIA GPU Display Driver:

1. CVE-2024-0126

- Severity: High (CVSS 8.2)
- Affects: Windows and Linux drivers
- Impact: Code execution, denial of service, escalation of privileges, information disclosure, and data tampering

2. CVE-2024-0117 to CVE-2024-0121

- Severity: High (CVSS 7.8)
- Affects: Windows drivers only
- Impact: Code execution, denial of service, escalation of privileges, information disclosure, and data tampering

NVIDIA vGPU Software:

1. CVE-2024-0127

- Severity: High (CVSS 7.8)
- Affects: GPU kernel driver of vGPU Manager
- Impact: Code execution, escalation of privileges, data tampering, denial of service, and information disclosure

2. CVE-2024-0128

- Severity: High (CVSS 7.1)
- Affects: Virtual GPU Manager
- Impact: Information disclosure, data tampering, and escalation of privileges

Updated Versions:

Windows GPU Display Driver:

Product	Driver Branch	Updated Version
GeForce	R565	566.03
NVIDIA RTX, Quadro, NVS	R565, R550, R535	566.03, 553.24, 538.95
Tesla	R565, R550, R535	566.03, 553.24, 538.95

Linux GPU Display Driver:

Product	Driver Branch	Updated Version
GeForce	R565, R550, R535	565.57.01, 550.127.05, 535.216.01
NVIDIA RTX, Quadro, NVS	R565, R550, R535	565.57.01, 550.127.05, 535.216.01
Tesla	R550, R535	550.127.05, 535.216.01

NVIDIA vGPU Software:

Component	Updated Version
Guest driver (Windows)	17.4 (553.24), 16.8 (538.95)
Guest driver (Linux)	17.4 (550.127.05), 16.8 (535.216.01)
Virtual GPU Manager (Citrix Hypervisor, VMware vSphere, Red Hat Enterprise Linux KVM, Ubuntu)	17.4 (550.127.06), 16.8 (535.216.01)
Virtual GPU Manager(Azure Stack HCI)	17.4(553.20)

RECOMMENDATIONS:

The UAE Cyber Security Council recommends applying the security updates recently 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/5586