



CVE-2020-5987

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Virtual Gpu Manager](#) from [Nvidia](#) contain the following vulnerability:

NVIDIA Virtual GPU Manager contains a vulnerability in the vGPU plugin in which guest-supplied parameters remain writable by the guest after the plugin has validated them, which may lead to the guest being able to pass invalid parameters to plugin handlers, which may lead to denial of service or escalation of privileges. This affects vGPU version 8.x (prior to 8.5), version 10.x (prior to 10.4) and version 11.0.

CVE-2020-5987 has been assigned by psirt@nvidia.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **NVIDIA - NVIDIA vGPU Software** version **vGPU version 8.x (prior to 8.5), version 10.x (prior to 10.4) and version 11.0.**

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **4.6 - MEDIUM**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
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Description

Security Bulletin: NVIDIA GPU Display Driver - September 2020 | NVIDIA

Vendor Advisory

nvidia.custhelp.com

text/html

CONFIRM

nvidia.custhelp.com/app/answers/detail/a_id/5075

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Related QID Numbers

375756 Lenovo NVIDIA GPU Display Driver Multiple Vulnerabilities (LEN-47663)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Nvidia	Virtual Gpu Manager	All	All	All	All
Application	Nvidia	Virtual Gpu Manager	11.0	All	All	All
Application	Nvidia	Virtual Gpu Manager	All	All	All	All
Application	Nvidia	Virtual Gpu Manager	11.0	All	All	All

cpe:2.3:a:nvidia:virtual_gpu_manager:*****:.*

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cpe:2.3:a:nvidia:virtual_gpu_manager:*****:.*

cpe:2.3:a:nvidia:virtual_gpu_manager:11.0:*****:.*

No vendor comments have been submitted for this CVE

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