



CVE-2022-31617

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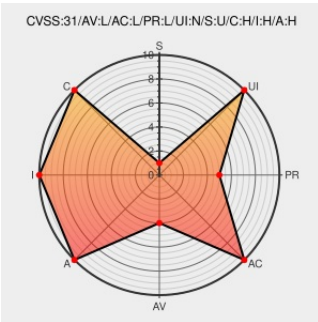
CVE-2022-31617

[Source: Mitre](#)

[Source: NIST](#)

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Certain versions of [Windows](#) from [Microsoft](#) contain the following vulnerability:

NVIDIA GPU Display Driver for Windows contains a vulnerability in the kernel mode layer (nvlddmkm.sys), where a local user with basic capabilities can cause an out-of-bounds read, which may lead to code execution, denial of service, escalation of privileges, information disclosure, or data tampering.

CVE-2022-31617 has been assigned by psirt@nvidia.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **NVIDIA - NVIDIA Cloud Gaming (guest driver)** version **All versions prior to the August 2022 release**

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



CVE References

Description	Tags	Link
Security Bulletin: NVIDIA GPU Display Driver - August 2022 NVIDIA	nvidia.custhelp.com text/html	MISC nvidia.custhelp.com/app/answers/detail/a_id/5383

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Microsoft	Windows	-	All	All	All
Application	Nvidia	Cloud Gaming Guest	All	All	All	All
Hardware 	Nvidia	Geforce	-	All	All	All
Application	Nvidia	Gpu Display Driver	All	All	All	All
Application	Nvidia	Studio	-	All	All	All
Hardware 	Nvidia	Tesla	-	All	All	All
Application	Nvidia	Virtual Gpu	All	All	All	All
Application	Nvidia	Virtual Gpu	14.0	All	All	All
cpe:2.3:o:microsoft:windows:-:*:*:*:*:*:						
cpe:2.3:a:nvidia:cloud_gaming_guest:*:*:*:*:*:						
cpe:2.3:h:nvidia:geforce:-:*:*:*:*:*:						
cpe:2.3:a:nvidia:gpu_display_driver:*:*:*:*:windows.*:*:						
cpe:2.3:a:nvidia:studio:-:*:*:*:*:*:						
cpe:2.3:h:nvidia:tesla:-:*:*:*:*:*:						
cpe:2.3:a:nvidia:virtual_gpu:*:*:*:*:*:						
cpe:2.3:a:nvidia:virtual_gpu:14.0:*:*:*:*:*:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-31617 : NVIDIA GPU Display Driver for #Windows contains a vulnerability in the #kernel mode layer nvlddmk... twitter.com/i/web/status/1...	2022-11-19 00:09:08
 /r/netcve	CVE-2022-31617	2022-11-19 00:39:13

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