



Virtual GPU Software R460 for Microsoft Windows Server

Release Notes

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Chapter 1. Release Notes

These *Release Notes* summarize current status, information on validated platforms, and known issues with NVIDIA vGPU software and associated hardware on Microsoft Windows Server.



Note: The most current version of the documentation for this release of NVIDIA vGPU software can be found online at [NVIDIA Virtual GPU Software Documentation](#).

1.1. NVIDIA vGPU Software Driver Versions

Each release in this release family of NVIDIA vGPU software includes a specific version of the NVIDIA Windows driver and NVIDIA Linux driver.

NVIDIA vGPU Software Version	NVIDIA Windows Driver Version	NVIDIA Linux Driver Version
12.4	463.15	460.106.00
12.3	462.96	460.91.03
12.2	462.31	460.73.01
12.1	461.33	460.32.03
12.0	461.09	460.32.03



Note:

All releases in this release family of NVIDIA vGPU software are compatible with **all** releases of the NVIDIA vGPU software license server.

1.2. Updates in Release 12.4

New Features in Release 12.4

- ▶ Security updates - see *Security Bulletin: NVIDIA GPU Display Driver - October 2021*, which is posted shortly after the release date of this software and is listed on the [NVIDIA Product Security](#) page
- ▶ Miscellaneous bug fixes

1.3. Updates in Release 12.3

New Features in Release 12.3

- ▶ Security updates - see [Security Bulletin: NVIDIA GPU Display Driver - July 2021](#)
- ▶ Miscellaneous bug fixes

Feature Support Withdrawn in Release 12.3

- ▶ Red Hat Enterprise Linux 8.3 is no longer supported as a guest OS.

1.4. Updates in Release 12.2

New Features in Release 12.2

- ▶ Security updates - see [Security Bulletin: NVIDIA GPU Display Driver - April 2021](#)
- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 12.2

- ▶ Support for the following GPUs:
 - ▶ NVIDIA® A10
 - ▶ NVIDIA RTX A5000
- ▶ Support for Red Hat Enterprise Linux 8.4 as a guest OS

1.5. Updates in Release 12.1

New Features in Release 12.1

- ▶ Miscellaneous bug fixes

1.6. Updates in Release 12.0

New Features in Release 12.0

- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 12.0

- ▶ Support for the following GPUs:
 - ▶ NVIDIA A100 HGX 80GB
 - ▶ NVIDIA A40
 - ▶ NVIDIA RTX A6000
- ▶ Support for Windows 10 October 2020 Update (20H2) as a guest OS
Windows 10 May 2021 Update (21H1), which is a bug fix release for Windows 10 October 2020 Update (20H2), is also supported.
- ▶ Support for SuSE Linux Enterprise Server 15 SP2

Chapter 2. Validated Platforms

This release family of NVIDIA vGPU software provides support for several NVIDIA GPUs on validated server hardware platforms, Microsoft Windows Server hypervisor software versions, and guest operating systems.

2.1. Supported NVIDIA GPUs and Validated Server Platforms

This release of NVIDIA vGPU software provides support for the following NVIDIA GPUs on Microsoft Windows Server, running on validated server hardware platforms:

- ▶ GPUs based on the NVIDIA Maxwell™ graphic architecture:
 - ▶ Tesla M6
 - ▶ Tesla M10
 - ▶ Tesla M60
- ▶ GPUs based on the NVIDIA Pascal™ architecture:
 - ▶ Tesla P4
 - ▶ Tesla P6
 - ▶ Tesla P40
 - ▶ Tesla P100 PCIe 16 GB
 - ▶ Tesla P100 SXM2 16 GB
 - ▶ Tesla P100 PCIe 12GB
- ▶ GPUs based on the NVIDIA Volta architecture:
 - ▶ Tesla V100 SXM2
 - ▶ Tesla V100 SXM2 32GB
 - ▶ Tesla V100 PCIe
 - ▶ Tesla V100 PCIe 32GB
 - ▶ Tesla V100S PCIe 32GB
 - ▶ Tesla V100 FHHL

- ▶ GPUs based on the NVIDIA Turing™ architecture:
 - ▶ Tesla T4
 - ▶ Quadro RTX 6000 in displayless mode
 - ▶ Quadro RTX 6000 passive in displayless mode
 - ▶ Quadro RTX 8000 in displayless mode
 - ▶ Quadro RTX 8000 passive in displayless mode

In displayless mode, local physical display connectors are disabled.

- ▶ GPUs based on the NVIDIA Ampere architecture:
 - ▶ NVIDIA A100 HGX 80GB (supports **only** compute workloads on Linux with GPU pass through; graphics acceleration is **not** supported)
 - ▶ NVIDIA A100 PCIe 40GB (supports **only** compute workloads on Linux with GPU pass through; graphics acceleration is **not** supported)
 - ▶ NVIDIA A100 HGX 40GB (supports **only** compute workloads on Linux with GPU pass through; graphics acceleration is **not** supported)
 - ▶ NVIDIA A40 in displayless mode
 - ▶ **Since 12.2:** NVIDIA A10
 - ▶ NVIDIA RTX A6000 in displayless mode
 - ▶ **Since 12.2:** NVIDIA RTX A5000 in displayless mode

In displayless mode, local physical display connectors are disabled.



Note: All GPUs that support graphics acceleration are supported as a secondary device in a bare-metal deployment. Tesla M6 is also supported as the primary display device in a bare-metal deployment.

For a list of validated server platforms, refer to [NVIDIA GRID Certified Servers](#).

2.1.1. Switching the Mode of a GPU that Supports Multiple Display Modes

Some GPUs support displayless and display-enabled modes but must be used in NVIDIA vGPU software deployments in displayless mode.

The GPUs listed in the following table support multiple display modes. As shown in the table, some GPUs are supplied from the factory in displayless mode, but other GPUs are supplied in a display-enabled mode.

GPU	Mode as Supplied from the Factory
NVIDIA A40	Displayless
NVIDIA RTX A5000	Display enabled
NVIDIA RTX A6000	Display enabled

A GPU that is supplied from the factory in displayless mode, such as the NVIDIA A40 GPU, might be in a display-enabled mode if its mode has previously been changed.

To change the mode of a GPU that supports multiple display modes, use the `displaymodeselector` tool, which you can request from the [NVIDIA Display Mode Selector Tool](#) page on the NVIDIA Developer website.



Note:

Only the following GPUs support the `displaymodeselector` tool:

- ▶ NVIDIA A40
- ▶ NVIDIA RTX A5000
- ▶ NVIDIA RTX A6000

Other GPUs that support NVIDIA vGPU software do not support the `displaymodeselector` tool and, unless otherwise stated, do not require display mode switching.

2.1.2. Switching the Mode of a Tesla M60 or M6 GPU

Tesla M60 and M6 GPUs support compute mode and graphics mode. NVIDIA vGPU requires GPUs that support both modes to operate in graphics mode.

Recent Tesla M60 GPUs and M6 GPUs are supplied in graphics mode. However, your GPU might be in compute mode if it is an older Tesla M60 GPU or M6 GPU or if its mode has previously been changed.

To configure the mode of Tesla M60 and M6 GPUs, use the `gpumodeswitch` tool provided with NVIDIA vGPU software releases. If you are unsure which mode your GPU is in, use the `gpumodeswitch` tool to find out the mode.



Note:

Only Tesla M60 and M6 GPUs support the `gpumodeswitch` tool. Other GPUs that support NVIDIA vGPU do not support the `gpumodeswitch` tool and, except as stated in [Switching the Mode of a GPU that Supports Multiple Display Modes](#), do not require mode switching.

Even in compute mode, Tesla M60 and M6 GPUs do **not** support NVIDIA Virtual Compute Server vGPU types.

For more information, refer to [gpumodeswitch User Guide](#).

2.2. Hypervisor Software Releases

This release supports **only** the hypervisor software versions listed in the table.



Note: If a specific release, even an update release, is not listed, it's **not** supported.

Software	Version Supported	Notes
Microsoft Windows Server 2019	Windows Server 2019 with Hyper-V role	
Microsoft Windows Server 2016	Windows Server 2016 1803 with Hyper-V role Windows Server 2016 1709 with Hyper-V role Windows Server 2016 1607 with Hyper-V role	Not supported on the following GPUs: <ul style="list-style-type: none"> ▶ NVIDIA A100 HGX 80GB ▶ NVIDIA A100 PCIe 40GB ▶ NVIDIA A100 HGX 40GB

2.3. Guest OS Support

NVIDIA vGPU software supports several Windows releases and Linux distributions as a guest OS using GPU pass-through.

Microsoft Windows Server with Hyper-V role supports GPU pass-through over Microsoft Virtual PCI bus. This bus is supported through paravirtualized drivers.



Note:

Use only a guest OS release that is listed as supported by NVIDIA vGPU software with your virtualization software. To be listed as supported, a guest OS release must be supported not only by NVIDIA vGPU software, but also by your virtualization software. NVIDIA **cannot** support guest OS releases that your virtualization software does not support.

NVIDIA vGPU software supports **only** 64-bit guest operating systems. No 32-bit guest operating systems are supported.

2.3.1. Windows Guest OS Support

NVIDIA vGPU software supports **only** the 64-bit Windows releases listed as a guest OS on Microsoft Windows Server.



Note:

If a specific release, even an update release, is not listed, it's **not** supported.

- ▶ Windows Server 2019
- ▶ Windows Server 2016 1607, 1709
- ▶ Windows Server 2012 R2 with patch `windows8.1-KB3133690-x64.msu` (not supported on GPUs based on architectures after the NVIDIA Turing architecture)
- ▶ Windows 10 May 2021 Update (21H1) and all Windows 10 releases supported by Microsoft up to and including this release

2.3.2. Linux Guest OS Support

NVIDIA vGPU software supports **only** the 64-bit Linux distributions listed as a guest OS on Microsoft Windows Server.

**Note:**

If a specific release, even an update release, is not listed, it's **not** supported.

- ▶ Red Hat Enterprise Linux 7.7-7.9
- ▶ CentOS 7.6, 7.7
- ▶ Ubuntu 18.04 LTS
- ▶ Ubuntu 16.04 LTS
- ▶ SUSE Linux Enterprise Server 15 SP2
- ▶ SUSE Linux Enterprise Server 12 SP2

Chapter 3. Known Issues

3.1. A licensed client might fail to acquire a license if a proxy is set

Description

If a proxy is set with a system environment variable such as `HTTP_PROXY` or `HTTPS_PROXY`, a licensed client might fail to acquire a license.

Workaround

Perform this workaround on each affected licensed client.

1. Add the address of the NVIDIA vGPU software license server to the system environment variable `NO_PROXY`.

The address must be specified exactly as it is specified in the client's license server settings either as a fully-qualified domain name or an IP address. If the `NO_PROXY` environment variable contains multiple entries, separate the entries with a comma (,).

If high availability is configured for the license server, add the addresses of the primary license server and the secondary license server to the system environment variable `NO_PROXY`.

2. Restart the NVIDIA driver service that runs the core NVIDIA vGPU software logic.
 - ▶ On Windows, restart the **NVIDIA Display Container** service.
 - ▶ On Linux, restart the `nvidia-gridd` service.

Status

Closed

Ref.

200704733

3.2. Disconnected sessions cannot be reconnected or might be reconnected very slowly with NVWMI installed

Description

Disconnected sessions cannot be reconnected or might be reconnected very slowly when the NVIDIA Enterprise Management Toolkit (NVWMI) is installed. This issue affects Citrix Virtual Apps and Desktops and VMware Horizon sessions on Windows guest VMs.

Workaround

Uninstall NVWMI.

Status

Open

Ref.

3262923

3.3. 12.0 Only: Sessions freeze when Adobe Premiere with the Adobe Mercury Engine is used

Description

Sessions freeze when Adobe Premiere with the Adobe Mercury Engine is used. The session can freeze after 15-20 minutes of use or when a project is being exported.

Workaround

Status

Resolved in NVIDIA vGPU software 12.1

Ref.

3230997

3.4. 12.0 Only: Issues occur when Blackmagic Design DaVinci Resolve is used

Description

Multiple issues, such as application crashes, application instability, and session freezes, occur when Blackmagic Design DaVinci Resolve is used. CUDA error 702 might also be observed.

Status

Resolved in NVIDIA vGPU software 12.1

Ref.

3225521

3.5. 12.0, 12.1 Only: NVIDIA vGPU software graphics driver installation fails in Ubuntu guest VMs

Description

Installation of the NVIDIA vGPU software graphics driver from a `.run` file fails in Ubuntu guest VMs that are running Linux kernel version 5.8 or later.

Version

Ubuntu 20.04 LTS and 18.04 with Linux kernel version 5.8 or later

Workaround

Revert to a Linux kernel version earlier than 5.8.

Status

Resolved in NVIDIA vGPU software 12.2

Ref.

3226853

3.6. NVIDIA Control Panel fails to start if launched too soon from a VM without licensing information

Description

If NVIDIA licensing information is not configured on the system, any attempt to start **NVIDIA Control Panel** by right-clicking on the desktop within 30 seconds of the VM being started fails.

Workaround

Restart the VM and wait at least 30 seconds before trying to launch **NVIDIA Control Panel**.

Status

Open

Ref.

200623179

3.7. Citrix Virtual Apps and Desktops session corruption occurs in the form of residual window borders

Description

When a window is dragged across the desktop in a Citrix Virtual Apps and Desktops session, corruption of the session in the form of residual window borders occurs.

Version

This issue affects only Citrix Virtual Apps and Desktops version 7 2003

Workaround

Use Citrix Virtual Apps and Desktops version 7 1912 or 2006.

Status

Not an NVIDIA bug

Ref. #

200608675

3.8. On Linux, the frame rate might drop to 1 after several minutes

Description

On Linux, the frame rate might drop to 1 frame per second (FPS) after NVIDIA vGPU software has been running for several minutes. Only some applications are affected, for example, `glxgears`. Other applications, such as Unigine Heaven, are not affected. This behavior occurs because Display Power Management Signaling (DPMS) for the Xorg server is enabled by default and the display is detected to be inactive even when the application is running. When DPMS is enabled, it enables power saving behavior of the display after several minutes of inactivity by setting the frame rate to 1 FPS.

Workaround

1. If necessary, stop the Xorg server.

```
# /etc/init.d/xorg stop
```

2. In a plain text editor, edit the `/etc/X11/xorg.conf` file to set the options to disable DPMS and disable the screen saver.

- a). In the `Monitor` section, set the `DPMS` option to `false`.

```
Option "DPMS" "false"
```

- b). At the end of the file, add a `ServerFlags` section that contains option to disable the screen saver.

```
Section "ServerFlags"
    Option "BlankTime" "0"
EndSection
```

- c). Save your changes to `/etc/X11/xorg.conf` file and quit the editor.

3. Start the Xorg server.

```
# etc/init.d/xorg start
```

Status

Open

Ref. #

200605900

3.9. Microsoft DDA fails with some GPUs

Description

Microsoft Discrete Device Assignment (DDA) fails with GPUs that have more than 16 GB of GPU memory. After the NVIDIA vGPU software graphics driver is installed in the guest VM, a second display device appears on the GPU and the driver prompts for a reboot. After the reboot, the device disappears and the Microsoft Hyper-V Video device appears.

This issue occurs because less memory-mapped input/output (MMIO) space is configured for the operating system than the device requires.

Workaround

Perform this workaround in a **Windows Power Shell** window on the hypervisor host.

Set the upper MMIO space to the amount that the device requires to allow all of the MMIO to be mapped. Upper MMIO space starts at approximately 64 GB in address space.

```
Set-VM -HighMemoryMappedIoSpace mmio-space -VMName vm-name
```

mmio-space

The amount of MMIO space that the device requires, appended with the appropriate unit of measurement, for example, **64GB** for 64 GB of MMIO space.

The required amount of MMIO space depends on the amount of BAR1 memory on the installed GPUs and the number of GPUs assigned to the VM as follows:

$$mmio-space = 2 \# \text{ gpu-bar1-memory } \# \text{ assigned-gpus}$$

gpu-bar1-memory

The amount of BAR1 memory on one of the installed GPUs. For example, in a server in which eight GPUs are installed and each GPU has 32 GB of BAR1 memory, *gpu-bar1-memory* is 32 GB.

assigned-gpus

The number of GPUs assigned to the VM.

vm-name

The name of the VM to which the GPU is assigned.

The following example sets the upper MMIO space to 64 GB for the VM named `mygpvm`, to which one GPU with 32 GB of BAR1 memory is assigned.

```
Set-VM -HighMemoryMappedIoSpace 64GB -VMName mygpvm
```

For more information, see [Deploy graphics devices using Discrete Device Assignment](#) on the Microsoft technical documentation site.

Status

Not an NVIDIA bug

Ref.

2812853

3.10. DWM crashes randomly occur in Windows VMs

Description

Desktop Windows Manager (DWM) crashes randomly occur in Windows VMs, causing a blue-screen crash and the bug check `CRITICAL_PROCESS_DIED`. Computer Management shows problems with the primary display device.

Version

This issue affects Windows 10 1809, 1903 and 1909 VMs.

Status

Not an NVIDIA bug

Ref.

2730037

3.11. NVIDIA vGPU software graphics driver fails after Linux kernel upgrade with DKMS enabled

Description

After the Linux kernel is upgraded (for example by running `sudo apt full-upgrade`) with Dynamic Kernel Module Support (DKMS) enabled, the `nvidia-smi` command fails to run. If DKMS is enabled, an upgrade to the Linux kernel triggers a rebuild of the NVIDIA vGPU software graphics driver. The rebuild of the driver fails because the compiler version is incorrect. Any attempt to reinstall the driver fails because the kernel fails to build.

When the failure occurs, the following messages are displayed:

```
-> Installing DKMS kernel module:
    ERROR: Failed to run `/usr/sbin/dkms build -m nvidia -v 460.32.03 -k
5.3.0-28-generic`:
    Kernel preparation unnecessary for this kernel. Skipping...
    Building module:
```

```

cleaning build area...
'make' -j8 NV_EXCLUDE_BUILD_MODULES='' KERNEL_UNAME=5.3.0-28-generic
IGNORE_CC_MISMATCH='' modules... (bad exit status: 2)
ERROR (dkms apport): binary package for nvidia: 460.32.03 not found
Error! Bad return status for module build on kernel: 5.3.0-28-generic
(x86_64)
Consult /var/lib/dkms/nvidia/460.32.03/build/make.log for more information.
-> error.
ERROR: Failed to install the kernel module through DKMS. No kernel module
was installed;
please try installing again without DKMS, or check the DKMS logs for more
information.
ERROR: Installation has failed. Please see the file '/var/log/nvidia-
installer.log' for details.
You may find suggestions on fixing installation problems in the README
available on the Linux driver download page at www.nvidia.com.

```

Workaround

When installing the NVIDIA vGPU software graphics driver with DKMS enabled, use one of the following workarounds:

- ▶ Before running the driver installer, install the dkms package, then run the driver installer with the `-dkms` option.
- ▶ Run the driver installer with the `--no-cc-version-check` option.

Status

Not a bug.

Ref.

2836271

3.12. Blue screen crash occurs or no devices are found after VM reset

Description

If a VM on Microsoft Windows Server with Hyper-V role is reset from the hypervisor host, a blue screen crash (BSOD) occurs on Windows VMs and the `nvidia-smi` command reports `No devices were found` on Linux VMs. This issue occurs only on Windows Server 2019 with Tesla T4 GPUs with SRIOV enabled, Quadro RTX 8000 passive GPUs, and Quadro RTX 6000 passive GPUs.

Workaround

Contact NVIDIA Enterprise Support for a workaround for this issue, referencing the knowledge base article *Workaround for Blue Screen Crashes On Hyper-V DDA With SRIOV-Enabled GPUs*. This article is available only to NVIDIA Enterprise Support personnel.

Status

Not an NVIDIA bug

Ref.

200567935

3.13. Publisher not verified warning during Windows 7 driver installation

Description

During installation of the NVIDIA vGPU software graphics driver for Windows on Windows 7, Windows warns that it can't verify the publisher of the driver software. If **Device Manager** is used to install the driver, **Device Manager** warns that the driver is not digitally signed. If you install the driver, error 52 (CM_PROB_UNSIGNED_DRIVER) occurs.

This issue occurs because Microsoft is no longer dual signing WHQL-tested software binary files by using the SHA-1 and SHA-2 hash algorithms. Instead, WHQL-tested software binary files are signed only by using the SHA-2 hash algorithm. All NVIDIA vGPU software graphics drivers for Windows are WHQL tested.

By default, Windows 7 systems cannot recognize signatures that were created by using the SHA-2 hash algorithm. As a result, software binary files that are signed only by using the SHA-2 hash algorithm are considered unsigned.

For more information, see [2019 SHA-2 Code Signing Support requirement for Windows and WSUS](#) on the Microsoft Windows support website.

Version

Windows 7

Workaround

If you experience this issue, install the following updates and restart the VM or host before installing the driver:

- ▶ Servicing stack update (SSU) ([KB4490628](#))
- ▶ SHA-2 update ([KB4474419](#))

Status

Not a bug

3.14. Frame capture while the interactive logon message is displayed returns blank screen

Description

Because of a known limitation with NvFBC, a frame capture while the interactive logon message is displayed returns a blank screen.

An NvFBC session can capture screen updates that occur after the session is created. Before the logon message appears, there is no screen update after the message is shown and, therefore, a black screen is returned instead. If the NvFBC session is created after this update has occurred, NvFBC cannot get a frame to capture.

Workaround

Press **Enter** or wait for the screen to update for NvFBC to capture the frame.

Status

Not a bug

Ref.

2115733

3.15. RDS sessions do not use the GPU with some Microsoft Windows Server releases

Description

When some releases of Windows Server are used as a guest OS, Remote Desktop Services (RDS) sessions do not use the GPU. With these releases, the RDS sessions by default use the Microsoft Basic Render Driver instead of the GPU. This default setting enables 2D DirectX applications such as Microsoft Office to use software rendering, which can be more efficient than using the GPU for rendering. However, as a result, 3D applications that use DirectX are prevented from using the GPU.

Version

- ▶ Windows Server 2019
- ▶ Windows Server 2016
- ▶ Windows Server 2012

Solution

Change the local computer policy to use the hardware graphics adapter for all RDS sessions.

1. Choose **Local Computer Policy > Computer Configuration > Administrative Templates > Windows Components > Remote Desktop Services > Remote Desktop Session Host > Remote Session Environment** .
2. Set the **Use the hardware default graphics adapter for all Remote Desktop Services sessions** option.

3.16. A segmentation fault in DBus code causes `nvidia-gridd` to exit on Red Hat Enterprise Linux and CentOS

Description

On Red Hat Enterprise Linux 6.8 and 6.9, and CentOS 6.8 and 6.9, a segmentation fault in DBus code causes the `nvidia-gridd` service to exit.

The `nvidia-gridd` service uses DBus for communication with **NVIDIA X Server Settings** to display licensing information through the **Manage License** page. Disabling the GUI for licensing resolves this issue.

To prevent this issue, the GUI for licensing is disabled by default. You might encounter this issue if you have enabled the GUI for licensing and are using Red Hat Enterprise Linux 6.8 or 6.9, or CentOS 6.8 and 6.9.

Version

Red Hat Enterprise Linux 6.8 and 6.9

CentOS 6.8 and 6.9

Status

Open

Ref.

- ▶ 200358191
- ▶ 200319854
- ▶ 1895945

3.17. No Manage License option available in NVIDIA X Server Settings by default

Description

By default, the **Manage License** option is not available in **NVIDIA X Server Settings**. This option is missing because the GUI for licensing on Linux is disabled by default to work around the issue that is described in [A segmentation fault in DBus code causes nvidia-gridd to exit on Red Hat Enterprise Linux and CentOS](#).

Workaround

This workaround requires `sudo` privileges.



Note: Do **not** use this workaround with Red Hat Enterprise Linux 6.8 and 6.9 or CentOS 6.8 and 6.9. To prevent a segmentation fault in DBus code from causing the `nvidia-gridd` service from exiting, the GUI for licensing must be disabled with these OS versions.

If you are licensing a physical GPU for vCS, you **must** use the configuration file `/etc/nvidia/gridd.conf`.

1. If **NVIDIA X Server Settings** is running, shut it down.
2. If the `/etc/nvidia/gridd.conf` file does not already exist, create it by copying the supplied template file `/etc/nvidia/gridd.conf.template`.
3. As root, edit the `/etc/nvidia/gridd.conf` file to set the `EnableUI` option to `TRUE`.
4. Start the `nvidia-gridd` service.

```
# sudo service nvidia-gridd start
```

When **NVIDIA X Server Settings** is restarted, the **Manage License** option is now available.

Status

Open

3.18. Licenses remain checked out when VMs are forcibly powered off

Description

NVIDIA vGPU software licenses remain checked out on the license server when non-persistent VMs are forcibly powered off.

The NVIDIA service running in a VM returns checked out licenses when the VM is shut down. In environments where non-persistent licensed VMs are not cleanly shut down, licenses on the license server can become exhausted. For example, this issue can occur in automated test environments where VMs are frequently changing and are not guaranteed to be cleanly shut down. The licenses from such VMs remain checked out against their MAC address for seven days before they time out and become available to other VMs.

Resolution

If VMs are routinely being powered off without clean shutdown in your environment, you can avoid this issue by shortening the license borrow period. To shorten the license borrow period, set the `LicenseInterval` configuration setting in your VM image. For details, refer to [Virtual GPU Client Licensing User Guide](#).

Status

Closed

Ref.

1694975

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