



# What's New in Virtual GPU Software R580 for All Supported Hypervisors

Release Notes

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# Chapter 1. Updates by Release

Updates for each release in this release family of NVIDIA vGPU software may include new features, introduction of hardware and software support, and withdrawal of hardware and software support.

## 1.1. Updates in Release 19.5

### New Features in Release 19.5

- > Security updates

When these updates are disclosed, full details are provided in a new public NVIDIA GPU Display Driver security bulletin, which is listed on the [NVIDIA Product Security](#) page. To be notified of the availability of this and future bulletins, use the link on the [NVIDIA Product Security](#) page to subscribe to receive email notifications of security bulletin updates.

- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.5](#)

### Hardware and Software Support Introduced in Release 19.5

- > Newly supported hypervisor software:

- > Microsoft Azure Local 24H2 (12.2603.1002.500)

- > Newly supported guest OS releases:

- > SUSE Linux Enterprise Server 16.0
  - > SUSE Linux Enterprise Server 15 SP7
  - > SUSE Linux Enterprise Server 15 SP6

- > Newly supported remoting solutions:

- > Omnissa Horizon 8 2603

### Feature Support Withdrawn in Release 19.5

- > Guest OS releases no longer supported:

- > SUSE Linux Enterprise Server 15 SP2

## 1.2. Updates in Release 19.4

### New Features in Release 19.4

- > Security updates

When these updates are disclosed, full details are provided in a new public NVIDIA GPU Display Driver security bulletin, which is listed on the [NVIDIA Product Security](#) page. To be notified of the availability of this and future bulletins, use the link on the [NVIDIA Product Security](#) page to subscribe to receive email notifications of security bulletin updates.

- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.4](#)

### Hardware and Software Support Introduced in Release 19.4

- > Newly supported hypervisor software:

- > Red Hat Enterprise Linux with KVM 10.1
- > Red Hat Enterprise Linux with KVM 9.7

- > Newly supported guest OS releases:

- > Red Hat Enterprise Linux 10.1



**Note:** Because NVIDIA vGPU software does not support the Wayland display server protocol, Red Hat Enterprise Linux 10.1 is supported only in console and command-line interface (CLI) mode.

- > Red Hat Enterprise Linux 9.7
- > Ubuntu 24.04 LTS on XenServer 8.4
- > Windows 11 25H2
- > Newly supported remoting solutions:
  - > Citrix Virtual Apps and Desktops version 7 2511
  - > Omnissa Horizon 8 2512

## 1.3. Updates in Release 19.3

### New Features in Release 19.3

- > Support for Windows Enterprise multi-session with Windows 11 guest OS releases on the Microsoft Azure Local hypervisor
- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.3](#)

## 1.4. Updates in Release 19.2



**Note:** Starting with NVIDIA vGPU software 19.2, support for NVIDIA vGPU software on VMware vSphere Hypervisor (ESXi) 8.0 requires VMware vSphere Hypervisor (ESXi) 8.0u3 P06 and later updates to release 8.0 unless explicitly stated otherwise. Earlier VMware vSphere Hypervisor (ESXi) 8.0 builds are **not** supported.

### New Features in Release 19.2

- > Security updates

For the latest NVIDIA vulnerability disclosure information, visit the [NVIDIA Product Security](#) page. Security updates for NVIDIA vGPU software are described the NVIDIA GPU Display Driver security bulletins.

- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.2](#)

### Hardware and Software Support Introduced in Release 19.2

- > Newly supported graphics cards:

- > NVIDIA RTX PRO 6000 Blackwell Server Edition on VMware vSphere ESXi hypervisor 9.0.1.0

- > Newly supported guest OS releases:

- > Azure Linux 3
- > Microsoft Windows Server 2025 on XenServer

## 1.5. Updates in Release 19.1

### New Features in Release 19.1

- > New B-series vGPU profiles with 3 GB of frame buffer on supported GPUs based on the NVIDIA Ampere GPU architectures

- > vGPU hibernation support for GPUs based on the NVIDIA Ada Lovelace GPU architecture on Microsoft Azure Local

- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.1](#)

### Hardware and Software Support Introduced in Release 19.1

- > Newly supported graphics cards:

- > NVIDIA RTX PRO 6000 Blackwell Server Edition on the XenServer, Microsoft Azure Local, and Microsoft Windows Server hypervisors

- > Newly supported remoting solutions:
  - > Citrix Virtual Apps and Desktops version 7 2507
  - > Omnissa Horizon 8 2506

## 1.6. Updates in Release 19.0

### New Features in Release 19.0

- > Support for Multi-Instance GPU (MIG)-backed vGPUs for graphics on GPUs that support MIG
- > Support for time-sliced, MIG-backed vGPUs within a GPU instance on a MIG-enabled GPU
- > New B-series vGPU profiles with 3 GB of frame buffer on supported GPUs based on the NVIDIA Ada Lovelace and NVIDIA Blackwell GPU architectures
- > Support for Virtualization Based Security (VBS) in Windows 11 guest VMs
- > Miscellaneous bug fixes as explained in [Issues Resolved in Release 19.0](#)

### Newly Supported Hardware and Software in Release 19.0

- > Newly supported graphics cards:
  - > NVIDIA RTX PRO 6000 Blackwell Server Edition on the Red Hat Enterprise Linux with KVM, Ubuntu, and VMware vSphere hypervisors
- > Newly supported guest OS releases:
  - > Ubuntu 24.04 LTS and Ubuntu 22.04 LTS on Microsoft Windows Server 2025 in GPU-P mode only

### Features Deprecated in Release 19.0

NVIDIA vGPU software 19 is the last release branch to support the following graphics cards:

- > Tesla M10
- > Tesla V100 SXM2
- > Tesla V100 SXM2 32GB
- > Tesla V100 PCIe
- > Tesla V100 PCIe 32GB
- > Tesla V100S PCIe 32GB
- > Tesla V100 FHHL
- > Quadro RTX 6000
- > Quadro RTX 6000 passive

- > Quadro RTX 8000
- > Quadro RTX 8000 passive

Disabling strict round robin policy is deprecated and NVIDIA vGPU software 19 is the last release branch to support it. Support for this feature is planned to be removed in the next major release of NVIDIA vGPU software.

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## Chapter 2. Resolved Issues

Only resolved issues that have been previously noted as known issues or had a noticeable user impact are listed. The summary and description for each resolved issue indicate the effect of the issue on NVIDIA vGPU software **before the issue was resolved**.

### 2.1. Issues Resolved in Release 19.5

Bug ID	Summary
5405097	<a href="#">The console or RDP session is black on Windows vGPU VMs</a>
5563772	<a href="#">On Windows hypervisors, vGPU utilization is reported as 0%</a>
5588139	<a href="#">vGPU migration fails for GPUs that include a GSP</a>
5692777	<a href="#">Intermittent deadlock occurs in the NVIDIA Direct3D11 user-mode driver</a>
5904690	<a href="#">GLX does not work after the NVIDIA vGPU software graphics driver is installed from an RPM package file</a>

### 2.2. Issues Resolved in Release 19.4

Bug ID	Summary
5115698	<a href="#">GPU device is unavailable on Windows 11 VMs with more than 1 TB of memory</a>
5536694	<a href="#">Maxwell-architecture vGPU VMs fail to start</a>

### 2.3. Issues Resolved in Release 19.3

Bug ID	Summary
5518341	<a href="#">Kernel module nvidia.ko fails to load with kernel versions since 5.14.0-570.26.1</a>

### 2.4. Issues Resolved in Release 19.2

No resolved issues are reported in this release for all supported hypervisors.

## 2.5. Issues Resolved in Release 19.1

No resolved issues are reported in this release for all supported hypervisors.

## 2.6. Issues Resolved in Release 19.0

No resolved issues are reported in this release for all supported hypervisors.

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