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 19.4

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

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

1.2. 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

1.3. 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

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
  - NVIDIA RTX PRO 6000D on the Red Hat Enterprise Linux with KVM and Ubuntu hypervisors
- Newly supported guest OS releases:
  - Azure Linux 3
  - Microsoft Windows Server 2025 on XenServer

1.4. 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

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

1.5. 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

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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