



What's New in Virtual GPU Software R418 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 8.10

New Features in Release 8.10

- ▶ Security updates - see *Security Bulletin: NVIDIA GPU Display Driver - February 2022*, which is posted shortly after the release date of this software and is listed on the [NVIDIA Product Security](#) page
- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 8.10

- ▶ Support for Red Hat Enterprise Linux with KVM hypervisor 8.5
- ▶ Support for Red Hat Enterprise Linux 8.5 as a guest OS
- ▶ Support for VMware Horizon 2111 (8.4)

Feature Support Withdrawn in Release 8.10

- ▶ Red Hat Enterprise Linux with KVM hypervisor 8.1, 7.8, and 7.7 are no longer supported.
- ▶ Red Hat Enterprise Linux 8.1 is no longer supported as a guest OS.
- ▶ Red Hat Enterprise Linux 7.8. and 7.7 are no longer supported as a guest OS.

1.2. Updates in Release 8.9

New Features in Release 8.9

- ▶ 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 8.8

New Features in Release 8.8

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

Hardware and Software Support Introduced in Release 8.8

- ▶ Support for Red Hat Enterprise Linux with KVM hypervisor release 8.4
- ▶ Support for Red Hat Enterprise Linux 8.4 as a guest OS
- ▶ Support for VMware Horizon 2106 (8.3)

Feature Support Withdrawn in Release 8.8

- ▶ Citrix Hypervisor 7.0 is no longer supported.

1.4. Updates in Release 8.7

New Features in Release 8.7

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

Hardware and Software Support Introduced in Release 8.7

- ▶ Support for the following releases of VMware Horizon:
 - ▶ VMware Horizon 2103 (8.2)
 - ▶ VMware Horizon 2012 (8.1)

1.5. Updates in Release 8.6

New Features in Release 8.6

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

Hardware and Software Support Introduced in Release 8.6

- ▶ Support for VMware Horizon 7.13

Feature Support Withdrawn in Release 8.6

- ▶ Red Hat Enterprise Linux with KVM hypervisor 7.6 is no longer supported
- ▶ Red Hat Enterprise Linux 7.6 is no longer supported as a guest OS

1.6. Updates in Release 8.5

New Features in Release 8.5

- ▶ Security updates- see [Security Bulletin: NVIDIA GPU Display Driver - September 2020](#)
- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 8.5

- ▶ Support for VMware Horizon 2006 (8.0)

Feature Support Withdrawn in Release 8.5

- ▶ Citrix Hypervisor 8.0 is no longer supported.

As a result of the withdrawal of support for Citrix Hypervisor 8.0, the following features are withdrawn on Citrix Hypervisor:

- ▶ Support for the Tesla T4 GPU
- ▶ Support for XenMotion with vGPU
- ▶ Support for the following releases as a guest OS:
 - ▶ Red Hat Enterprise Linux 8.2 and 8.1
 - ▶ CentOS Linux 8 (1911)
- ▶ Nutanix AHV 5.5 is no longer supported.

1.7. Updates in Release 8.4

New Features in Release 8.4

- ▶ Miscellaneous bug fixes
- ▶ Security updates - see [Security Bulletin: NVIDIA GPU Display Driver - June 2020](#)

Hardware and Software Support Introduced in Release 8.4

- ▶ Support for Nutanix AHV 5.15
- ▶ Support for Red Hat Enterprise Linux with KVM hypervisor release 8.2 and 7.8
- ▶ Support for the following guest OS releases
 - ▶ Red Hat Enterprise Linux 8.2 and 7.8
 - ▶ CentOS 7.8
- ▶ Support for VMware Horizon 7.12

Feature Support Withdrawn in Release 8.4

- ▶ The following Red Hat hypervisor software releases are no longer supported:
 - ▶ Red Hat Enterprise Linux with KVM hypervisor releases 7.0-7.5
 - ▶ Red Hat Virtualization (RHV) 4.1
- ▶ Nutanix AHV 5.9 and 5.8 are no longer supported
- ▶ The following OS releases are no longer supported as a guest OS:
 - ▶ Red Hat Enterprise Linux 7.5
 - ▶ CentOS 7.5

1.8. Updates in Release 8.3

New Features in Release 8.3

- ▶ Miscellaneous bug fixes
- ▶ Security updates - see [Security Bulletin: NVIDIA GPU Display Driver - February 2020](#)

Hardware and Software Support Introduced in Release 8.3

- ▶ Support for Red Hat Enterprise Linux with KVM hypervisor release 8.1
- ▶ Support for the following guest OS releases
 - ▶ Red Hat Enterprise Linux 8.1
 - ▶ CentOS Linux 8 (1911)
- ▶ Support for Citrix Virtual Apps and Desktops version 7 1912
- ▶ Support for VMware Horizon 7.11

Feature Support Withdrawn in Release 8.3

- ▶ Citrix Hypervisor 7.6 is no longer supported.
- ▶ Red Hat Enterprise Linux with KVM hypervisor releases 7.0-7.4 are no longer supported.

- ▶ VMware vSphere 6.0 is no longer supported
- ▶ The following OS releases are no longer supported as a guest OS:
 - ▶ Windows Server 2008 R2
 - ▶ Red Hat Enterprise Linux 7.0-7.4
 - ▶ CentOS 7.0-7.4

1.9. Updates in Release 8.2

New Features in Release 8.2

- ▶ Miscellaneous bug fixes
- ▶ Security updates

Hardware and Software Support Introduced in Release 8.2

- ▶ Support for Citrix Virtual Apps and Desktops version 7 1909
- ▶ Support for VMware Horizon 7.10

1.10. Updates in Release 8.1

New Features in Release 8.1

- ▶ Security updates
- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 8.1

- ▶ Support for Red Hat Enterprise Linux with KVM 7.7 hypervisor
- ▶ Support for Red Hat Enterprise Linux 7.7 as a guest OS
- ▶ Support for Citrix Virtual Apps and Desktops version 7 1906
- ▶ Support for VMware Horizon 7.9

1.11. Updates in Release 8.0

New Features in Release 8.0

- ▶ New -1B4 virtual GPU types
- ▶ vGPU migration support on the following GPUs:
 - ▶ Tesla V100 SXM2

- ▶ Tesla V100 SXM2 32GB
- ▶ Tesla V100 PCIe
- ▶ Tesla V100 PCIe 32GB
- ▶ Tesla V100 FHHL
- ▶ Quadro RTX 6000
- ▶ Quadro RTX 8000

For the complete list of GPUs that support vGPU migration, see [Virtual GPU Software for Citrix Hypervisor Release Notes](#) and [Virtual GPU Software for VMware vSphere Release Notes](#).

- ▶ vGPU migration support on Citrix Hypervisor 8.0
- ▶ Support for multiple vGPUs of the following types in a single VM:
 - ▶ RTX6000-24Q
 - ▶ RTX8000-48Q

For the complete list of vGPU types that support multiple vGPUs in a single VM, see [Virtual GPU Software for Red Hat Enterprise Linux with KVM Release Notes](#).

- ▶ Support for multiple vGPUs in a single VM on RHV 4.2 and RHV 4.3
- ▶ Increase in the number of vGPUs supported in a single VM from four to 16
- ▶ Security updates
- ▶ Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 8.0

- ▶ Support for the following GPUs:
 - ▶ Quadro RTX 6000
 - ▶ Quadro RTX 8000
- ▶ Support for the Tesla T4 GPU on Nutanix AHV
- ▶ Support for Citrix Hypervisor 8.0
- ▶ Support for RHV 4.3
- ▶ Support for Windows Server 2019 with Hyper-V role
- ▶ Support for the following OS releases as a guest OS:
 - ▶ Windows 10 October 2018 Update (1809)
 - ▶ Windows Server 2019
- ▶ Support for Ubuntu 18.04 as a guest OS on Nutanix AHV

Feature Support Withdrawn in Release 8.0

- ▶ Citrix Hypervisor 7.5 is no longer supported.

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