

# What's New in Virtual GPU Software R470 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.

# Updates in Release 13.2

### New Features in Release 13.2

- 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 13.2

- 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 Citrix Virtual Apps and Desktops version 7 2112
- Support for VMware Horizon 2111 (8.4)

### Feature Support Withdrawn in Release 13.2

- 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.

# Updates in Release 13.1

### New Features in Release 13.1

Support for CUDA profilers on vGPUs on the following GPUs:

- **NVIDIA A40**
- NVIDIA A16
- NVIDIA A10
- NVIDIA RTX A6000
- NVIDIA RTX A5000
- Support for CUDA profilers on MIG-backed vGPUs on the following GPUs:
  - NVIDIA A100 PCIe 80GB
  - NVIDIA A100 HGX 80GB
  - NVIDIA A100 PCIe 40GB
  - NVIDIA A100 HGX 40GB
  - NVIDIA A30
- NVIDIA Deep Learning Super Sampling (DLSS) support on NVIDIA RTX Virtual Workstation
- Support for vSphere Lifecycle Management (vLCM)
- Support for virtual PCIe topology discovery (requires VMware vSphere ESXi 7.0.3 or later)

The topology daemon generates virtual device topology mapping in Linux VMs for use by NVIDIA communication libraries.

- Security updates see Security Bulletin: NVIDIA GPU Display Driver October 2021, which is available on 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 13.1

- Support for the following releases of Ubuntu as a hypervisor:
  - Ubuntu 20.04 LTS
  - Ubuntu 18.04 LTS
- Support for Windows 11 21H2 as a guest OS
- Support for Citrix Virtual Apps and Desktops version 7 2109

# Updates in Release 13.0

This release is not supported on all supported hypervisors.

### New Features in Release 13.0

- Support for the following NVIDIA CUDA Toolkitfeatures on NVIDIA vGPU:
  - Development tools such as IDEs, debuggers, profilers, and utilities as listed under CUDA Toolkit Major Components in NVIDIA CUDA Toolkit Release Notes for CUDA 11.4

- Tracing and profiling through the CUDA Profiling Tools Interface (CUPTI)
- Compatibility with the quest VM drivers from the previous long-term support branch (11)
- Single-slice GPU instances with decoder support
- Miscellaneous bug fixes

### Hardware and Software Support Introduced in Release 13.0

- Support for the following GPUs:
  - NVIDIA A100 PCIe 80GB
  - NVIDIA A30
  - NVIDIA A16
- Support for Windows Server 2022 with Hyper-V role
- Support for Windows Server 2022 as a guest OS
- Support for Citrix Virtual Apps and Desktops version 7 2106
- Support for VMware Horizon 2106 (8.3)

### Feature Support Withdrawn in Release 13.0

- The following GPUs are no longer supported on VMware vSphere:
  - NVIDIA A100 HGX 80GB
  - NVIDIA A100 PCIe 40GB
  - NVIDIA A100 HGX 40GB

Instead, these GPUs are supported on VMware vSphere with NVIDIA AI Enterprise.

- NVIDIA Virtual Compute Server (vCS) is no longer supported on VMware vSphere and Cseries vGPU types are no longer available. Instead, vCS is supported on VMware vSphere with NVIDIA AI Enterprise.
- ▶ The base VMware vSphere 7.0 release and VMware vSphere 7.0 Update 1 are no longer supported.

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