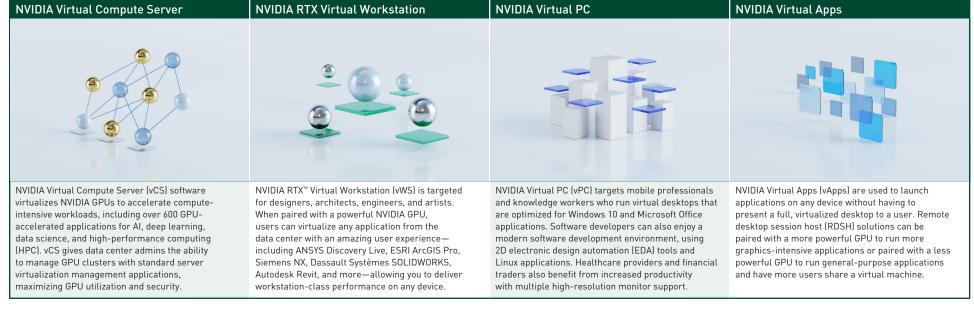


NVIDIA GPUs FOR VIRTUALIZATION

NVIDIA virtual GPU (vGPU) software enables powerful GPU performance from the enterprise data center, as well as public and private clouds for any workload from virtual desktops (VDI) to data science and AI. Installed on a server with an NVIDIA GPU, the NVIDIA vGPU software creates virtual GPUs that can be shared between multiple virtual machines running on any device, anywhere. This enables the IT department standardized on software-defined and hyperconverged infrastructure to leverage the management and security benefits of virtualization –and get the performance of NVIDIA GPUs for modern graphics and compute workloads.

Choose the Right Virtual GPU Software Edition for Your Use Case:



NVIDIA GPUs Recommended for Virtualization (Ampere Architecture)

	A100	A30	A40	A16
GPU Architecture	1 NVIDIA Ampere	1 NVIDIA Ampere	1 NVIDIA Ampere	4 NVIDIA Ampere
RTX Technology	_	-	/	J
Guaranteed QoS (GPU Scheduler)	J	V	/	√
Live Migration	J	J	J	J
Multi-vGPU	/	✓ ·	/	J
Memory Size	40/80GB HBM2	24GB HBM2	48GB GDDR6	64 GB GDDR6 (16 GB per GPU)
vGPU Profiles	4GB, 5GB, 8GB, 10GB, 16GB, 20GB, 40GB, 80GB	4 GB, 6GB, 8GB, 12GB, 24GB	1GB ¹ , 2GB ¹ , 3GB ¹ , 4GB, 6GB, 8GB, 12GB, 16GB, 24GB, 48GB	1GB¹, 2GB¹, 4GB, 8GB, 16GB
Form Factor	SXM4, and PCIe 4.0 dual slot	PCIe 4.0 dual slot	PCIe 4.0 dual slot	PCIe 4.0 dual slot
Power	400/250W	165W	300W	250W
Thermal	passive	passive	passive	passive
vGPU Software Support	vCS	vCS	vWS, vPC, vApps, vCS	vWS, vPC, vApps, vCS
Use Case	AI, data analytics, and HPC	Al inferencing, data analytics, and HPC	Midrange to high-end 3D design and creative workflows with vWS; upgrade path for RTX 8000, RTX 6000, or T4	Knowledge worker virtual desktops using modern productivity apps and multimedia with NVIDIA vPC/vApps. Entry NVIDIA RTX Virtual Workstations, upgrade path for M10 or T4.

The following NVIDIA GPUs are also supported for virtualization: NVIDIA V100/V100S, RTX A6000, RTX A5000, RTX 8000, RTX 6000, T4, P40, P6, and M10.

Not supported by vCS. Minimum profile size supported by vCS is 4GB.

WHAT MAKES NVIDIA VIRTUAL GPUS POWERFUL



EXCEPTIONAL USER EXPERIENCE

Ultimate user experience, with the ability to support both compute and graphics workloads.



BEST USER DENSITY

Industry's highest user-density solution with support for up to 64 virtual desktops per physical GPU. Lower TCO with more than ten vGPU profiles for the most flexibility to provision resources to match your users' needs.



CONTINUOUS INNOVATION

Regular cadence of new software releases to ensure you stay on top of the latest features and enhancements.



PERFORMANCE

Consistent near bare-metal performance, whether on premises or in the cloud.



OPTIMAL MANAGEMENT AND MONITORING

End-to-end management and monitoring for realtime insight into GPU performance. Broad partner integrations so you can use the tools you know and love.



BROADEST ECOSYSTEM SUPPORT

Support for all major hypervisors. Most extensive portfolio of professional apps certifications with NVIDIA RTX Enterprise Drivers.

To learn more about NVIDIA virtual GPU technology, visit www.nvidia.com/virtualgpu