

Modern Desktops & Workstations in the Cloud

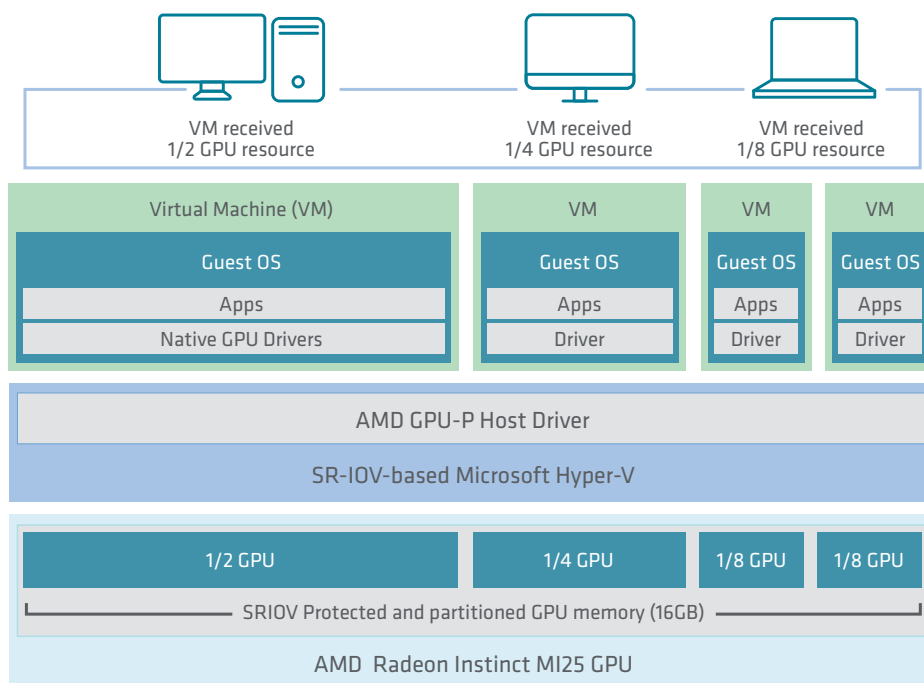


AMD-powered NVv4 instances deliver security focused and affordable GPU-partitioned virtual machines in Microsoft Azure®

From task workers to designers and architects, many of their everyday applications rely on GPU acceleration to deliver responsive user experiences and maximize productivity. Traditional CPU-only virtual machines often struggle to keep up with modern applications, leading to frustrated users as their productivity declines, while deploying GPU-accelerated, on-premises virtual environments can be too costly.

With the introduction of NVv4, Microsoft Azure can now deliver security focused and affordable modern desktop experiences in the cloud. Powered by AMD Radeon Instinct™ GPUs and its industry-first SR-IOV technology, the NVv4 instance offers a choice of four configurable options designed to deliver just the right amount of GPU capability for any enterprise workloads. NVv4 instance offers license-free GPU partitioning on discrete-GPUs in Azure. The result is a security focused, affordable, GPU-powered desktop and workstation experience in the cloud.

Modern cloud desktop experience, powered by SR-IOV



Microsoft Azure NVv4 Instances Quick Facts

1. The first GPU-partitioned VM on Azure, making GPU-enabled VMs more affordable than ever before
2. Four available NVv4 options designed to accelerate modern-day workloads from office productivity to professional 3D CAD and design-visualization
3. Manage NVv4 instances through preferred remote protocols: RDP, Citrix HDx, or Teradici® PCoIP®
4. Each NVv4 instance can be deployed in single- or multi-session configuration for maximum IT flexibility and scalability
5. Powered by the latest 2nd Gen AMD EPYC™ processors and AMD Radeon Instinct™ GPUs
6. Uncompromised workstation-class experience with CAD- and AEC ISV-certified applications
7. Supports Windows 10 Enterprise Multi-Session to deliver a “true” Windows 10 experience in Azure, reducing compatibility issues when migrating Windows 10 desktop applications to Azure





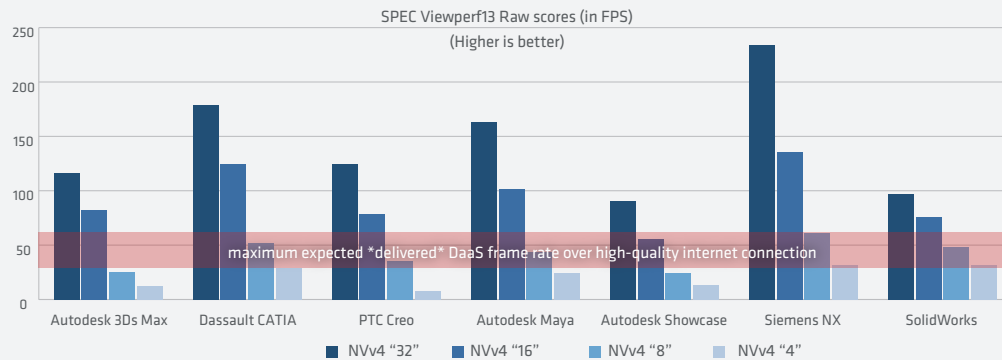
What is SR-IOV for GPUs?

Cloud-native, SR-IOV-based virtualization is designed to provide superior security compared to software-based GPU virtualization standards as it enables isolation of PCIe® hardware resources, helping prevent unauthorized access to the data of one VM by users of other VMs sharing the GPU.



Scale your performance needs with NVv4

Microsoft Azure's NVv4 delivers the modern desktop and workstation experience in the cloud. NVv4 instance types offer a range of "right-sized" performance and capacity across a broad range of professional 3D design and productivity applications.



Deployment flexibility and choice

Microsoft NVv4 instances are fully supported by Windows Virtual Desktop, Citrix Cloud, Workspot and Teradici Cloud Access.

Windows® Virtual Desktop



Choosing the right instance for your business

| Use Type | Size | vCPU | OS | Memory | GPU memory (GPU Partition) | Number of Displays | Res of Display | Target audience profile | Best for use case | Type of Applications |
|-----------------|-----------|------|---------------------------------------|--------|----------------------------|--------------------|---------------------------------|-------------------------|---|---|
| Single | NV4as_v4 | 4 | Win10 | 14 GB | 2 GB (1/8) | 1 | 1080p Up to 30Hz | Knowledge | Enterprise productivity & collaboration | Office 365, Web browsing, Video calling |
| Single | NV8as_v4 | 8 | Win10 | 28 GB | 4 GB (1/4) | 1-3 | 1 Display config: 4K up to 30Hz | Professional | Entry visual workloads & productivity | Office 365, Video calling and Revit® |
| Single/Sessions | NV16as_v4 | 16 | Win10, Win10 EVD, Server 19, Server16 | 56 GB | 8 GB (1/2) | 1-4 | 1 Display config: 4K up to 30Hz | Workstation | General Workstation-class workloads | Mainstream CAD and M&E |
| Single/Sessions | NV32as_v4 | 32 | Win10, Win10 EVD, Server 19, Server16 | 112 GB | 16 GB (1/1) | 1-4 | 1 Display config: 4K up to 30Hz | Full Graphics | High-end Workstation Class workloads | Mainstream-high-end CAD and M&E and advanced design viz |

For More Information Visit www.AMD.com/nvv4

Testing conducted by AMD Performance Labs as of Jan 12 on live Azure Cloud VM instance types (NVv4), in SPEC viewperf 13 performance. Standard NV4as_v4, Windows 10 Pro v1809, 4 vcpus, 14 GiB memory, 1/8 fractional/virtualized) AMD Radeon Instinct MI25 w/ 4GB VRAM, AMD/(MSFT customized) graphics driver version: Radeon-Pro-Software-for-Enterprise-19.Q41-TP, 1024 GiB Premium SSD. Standard NV4as_v8, Windows 10 Pro v1809, 8 vcpus, 28 GiB memory, 1/4 fractional/virtualized) AMD Radeon Instinct MI25 w/ 4GB VRAM, AMD/(MSFT customized) graphics driver version: Radeon-Pro-Software-for-Enterprise-19.Q41-TP, 1024 GiB Premium SSD. Standard NV4as_v16, Windows 10 Pro v1809, 16 vcpus, 56 GiB memory, 1/2 fractional/virtualized) AMD Radeon Instinct MI25 w/ 4GB VRAM, AMD/(MSFT customized) graphics driver version: Radeon-Pro-Software-for-Enterprise-19.Q41-TP, 1024 GiB Premium SSD. Standard NV4as_v32, Windows 10 Pro v1809, 32 vcpus.

©2020 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, and combinations thereof are trademarks of Advanced Micro Devices, Inc. Microsoft and Azure are trademarks of Microsoft Corporation or its subsidiaries in the U.S. and/or other countries. Autodesk, the Autodesk® logo, AutoCAD®, Revit®, Inventor®, Maya® and 3Ds Max® are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

