

# Empower Digital Professionals

## Dell Technologies Solution for Virtual Desktop Infrastructure with NVIDIA RTX vWS

70%

of employees expect to be productive from anywhere.<sup>1</sup>

50%

of employees are expected to be working from home long-term.<sup>2</sup>

Deploy virtual desktop infrastructure (VDI) for power users with NVIDIA RTX Virtual Workstations (vWS) powered by GPU-accelerated Dell EMC PowerEdge servers.

With this Dell Technologies solution for VDI with NVIDIA® RTX vWS, designed in collaboration with NVIDIA, organizations can provide GPU-accelerated performance for remote power users, enabling creativity and boosting productivity and efficiency no matter where professionals choose to work.

This jointly engineered VDI with NVIDIA RTX vWS solution is built on GPU-accelerated Dell EMC PowerEdge servers with NVIDIA vWS software and NVIDIA GPUs.

### Deliver immersive visualization tools anywhere.

For creators across industries, bringing concepts to life using graphics-rich applications is key to designing office buildings, airplanes, entertainment and more. Traditionally, these advanced workflows have been limited to high-powered workstations that are tethered to brick-and-mortar facilities with fixed compute infrastructures.

Virtual workstations can address these challenges and free users from the confines of a single physical location by delivering resources from the data center and providing secure access on any device, anywhere. However, most virtual workstation solutions fail to provide the performance needed to ensure smooth workflows for creative and technical professionals.

Running NVIDIA RTX vWS on GPU-accelerated Dell EMC PowerEdge servers enhances capacity, bringing more speed to professional visualization and giving you the power to virtualize any application power users may need, such as:

- **Architectural design:** Empower real-time collaboration for architects, engineers and designers.
- **Financial services:** Enable traders and analysts to work on up to four 5K monitors.
- **Healthcare:** Deliver remote access for 3D images to radiologists and medical imaging specialists.
- **Energy:** Enable geoscientists to access large seismic data sets to make drilling decisions.
- **Education:** Provide access to graphics-intensive 3D software on any device, from anywhere.
- **Government:** Deliver high-quality, simulated training via 3D graphics-rich virtual workstations.
- **Manufacturing:** Accelerate time to market by enabling virtual access to 3D models.
- **Media and entertainment:** Enable creators to remotely edit video on up to two 8K monitors.

<sup>1</sup> Enterprise Strategy Group, Remote Work Report, 2020.

<sup>2</sup> Pre and Post CV19: Dell User Group Pulse Survey, March 2020.

# 700+

industry-leading visualization and analytics applications certified for compatibility<sup>3</sup>

# 12X

faster rendering on a laptop<sup>3</sup>

# 2X

better graphics performance per dollar<sup>3</sup>

## Why deploy vWS for VDI

### Enable creativity without boundaries.

GPU-accelerated VDI for vWS solutions from Dell Technologies and NVIDIA can deliver real workforce transformation, enabling power users to be creative anywhere. These solutions help you streamline the design and implementation of architectures optimized for performance, agility and efficiency.

### Provide a seamless experience for remote power workers.

To remain productive, remote power users need uninterrupted, seamless technology experiences no matter where they log in. This solution enables you to tie the interactive design process with complex real-time simulations and faster rendering of photorealistic images together in a cohesive workflow. Plus, you can leverage AI-enhanced applications for more fluid, visual interactivity throughout the design process.

### Enhance business agility.

In today's fast-paced, digital world, it's critical to deliver secure, work-from-anywhere VDI capabilities for teams working from various, dispersed locations. With Dell Technologies solutions for VDI with NVIDIA RTX vWS, you can stand up new, powerful virtual workstations in as little as 10 minutes. Certified compatibility with more than 700 industry-leading visualization and analytic applications means you can deploy with confidence.

### Increase efficiency.

Efficiently centralize all your apps and data for a dramatically lower IT operating expense. You can further enhance efficiency by sharing the GPU, flexibly scaling GPU resources according to individual user needs and increasing utilization by allocating idle workstation resources to another user or to different workloads such as simulation, rendering or AI.

## Learn more

[delltechnologies.com/vdi](https://delltechnologies.com/vdi)  
[InfoHub](#)

## Build the optimal solution.

To support remote power users, Dell Technologies and NVIDIA recommend building a solution from the following options.

### Configuration options

Compute	Server GPU	Software
Dell EMC PowerEdge R750 Server	NVIDIA A16 GPUs (mixed use) NVIDIA A40 GPUs (power users)	NVIDIA RTX vWS

## Solution partner



### Dell Technologies and NVIDIA

Dell Technologies and NVIDIA have been working together closely for many years to target some of the world's most complex computing problems.

## Create powerful digital workspaces.

Don't wait to enable workplace transformation with optimized, GPU-accelerated VDI for NVIDIA RTX vWS solutions designed from the ground up to enhance user experience and efficiency for power users.

<sup>3</sup> NVIDIA solution overview, [NVIDIA Virtual Workstation](#), September 2021.

