Enterprise Workloads are Moving to the Cloud

Enterprises need the power of workstations and flexibility of the cloud to improve user productivity and stay competitive. It’s becoming more challenging as every year the IT environment becomes progressively more complex. Datasets are growing larger, workflows are becoming more compute-intensive, and enterprise applications are increasingly enhanced by AI.

It’s not surprising that in response to these challenges a growing number of enterprises are migrating workloads to the cloud. In fact, the pursuit of IT agility and digital transformation are the leading factors driving greater cloud engagement. A recent survey of IT leaders reveals that by 2020 upwards of 83 percent of enterprise workloads will be in the cloud with 41 percent running on public cloud platforms and another 22 percent on hybrid cloud platforms.¹

Moving to GPU-enabled virtual desktops in the cloud has a variety of benefits. IT teams can avoid the cost and complexity of managing data centers while quickly adapting to changing business needs. Plus, they no longer have to worry about operating system updates, security patches, hardware upgrades, and unnecessary consumption. With its promise of simplicity and high performance, it’s no wonder that by 2021 enterprise spending on cloud services and cloud-enabling hardware and software is expected to double to $530 billion.²

“83% of enterprise workloads will be in the cloud by 2020.”
LogicMonitor

When looking to harness the power of workstations and flexibility of the cloud, enterprises are increasingly turning to virtualization powered by NVIDIA Quadro® Virtual Workstation (Quadro vWS) instances to gain the flexibility and business agility to meet today’s IT challenges.

GPU-Accelerated Cloud Computing Powers Virtual Workstations

Using the NVIDIA Virtual Machine Image (VMI) with the Quadro Virtual Workstation (Quadro vWS) software available in CSP marketplaces, customers can spin up a VM in minutes. Then, it’s a simple matter of configuring the NVIDIA GPU instance, vCPU, memory, and storage requirements. No additional physical hardware or infrastructure needed. To get users up and running, all IT needs to do is install applications.

Cloud-Based Virtual Workstations Enhance On-Premise Deployments

To adapt to the rapidly evolving business landscape, organizations today must constantly innovate. Having the option to run virtualized workloads in traditional data centers, on the public cloud, or on a hybrid cloud mix is a critical part of staying competitive. Although not all workloads can be moved to the public cloud, pairing traditional infrastructure with the public cloud can enable organizations to optimize costs and increase efficiency. In fact, Gartner predicts that by 2020, 90 percent of organizations will adopt hybrid infrastructure management capabilities.¹

As many organizations look to adopt a hybrid cloud solution, they’re turning to NVIDIA Quadro Virtual Workstations, which provides even greater flexibility and business agility. Whether delivered from the cloud or from your data center, GPU-accelerated virtual workstations help to keep IT flexible, scalable and secure while dramatically lowering operating costs.

### Experience Quadro Reliability from the Cloud Today

NVIDIA Virtual Workstation on Tesla P40 (ND6, ND12, and ND24 instances) is available in the Azure Marketplace. Get the simplicity of the cloud with proven Quadro benefits to meet the demands of the enterprise-wide virtual workspace today.

Quadro Virtual Workstation on Azure supports Windows and Linux users:

- **Windows Server 2016**
- **Ubuntu 18.04**

### Deploy Virtual Desktops in the Cloud at Scale

For large scale cloud deployments, Microsoft’s Windows Virtual Desktop includes support for the Quadro Virtual Workstation instances on Tesla P40. Windows Virtual Desktop is based on RDmi (Remote Desktop modern infrastructure) and targets the knowledge worker and RDSH (Remote Desktop Session Host) segments. This solution leverages the Azure control panel and includes features such as identity management and brokering.

- **Learn more about Windows Virtual Desktop**

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**For more information visit** [www.nvidia.com/quadro-vws](http://www.nvidia.com/quadro-vws)

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