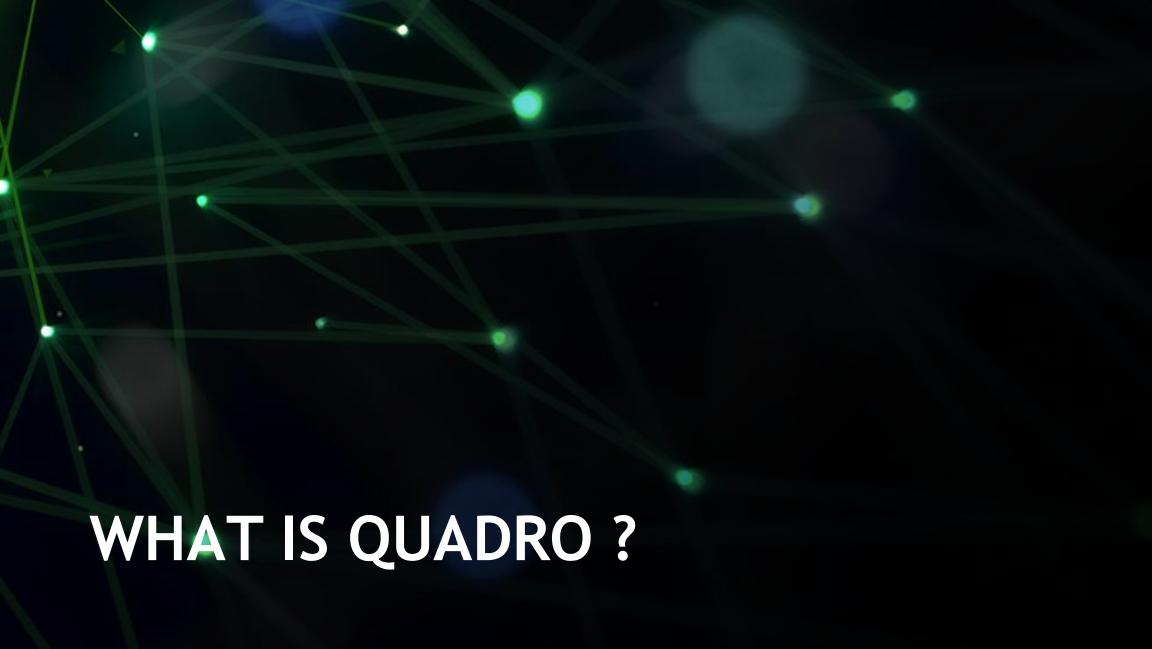




- What is Quadro?
- Quadro in the Datacenter
- Quadro in the Cloud
- Ways to access Virtual Workstations in the Cloud
- Use cases for Virtual Workstations in the Cloud

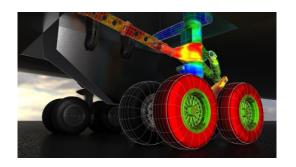


QUADRO VALUE PROPOSITION

KEY VALUE	CUSTOMER BENEFIT	QUADRO
	Best professional application performance	Highly tuned drivers for professional applications such as Dassault Systèmes CATIA and SOLIDWORKS, Autodesk MAYA, and many more
	Advanced professional features	Large memory w/ECC, GPUDirect for Video, multi-GPU support, quad buffered stereo, MOSAIC multi-display, Quadro Sync, and many more
Workflow Acceleration	Scalable performance	Larger memory configurations Qualified multi-GPU configurations for extreme performance
	Mission critical drivers	Long life, stable drivers Enterprise-grade system level verification by OEMs Enterprise-grade release management
	ISV certifications	Certified by major ISVs for over 100 professional applications
Enterprise-Grade Reliability	Certified with OEM workstations	Extensive joint qualification with major workstation OEMs for enterprise deployment
	Device management tools	Configuration, monitoring and diagnostic tools with local and remote access
	Global support	Access to industry solutions experts Enterprise level technical support Built and Warrantied by NVIDIA
Efficient IT Management	Extended product availability	Bulk availability Full product lifecycle management

QUADRO USE CASES

Quadro accelerates & streamlines professional workflows



Manufacturing



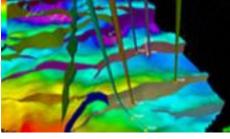
Architecture





Medical Imaging





Energy



Video Editing



Photorealism



Mapping & **Analytics**



Simulated Training

PROVEN QUADRO EXPERIENCE, ANYWHERE

Accelerating Design and Engineering Applications



Quadro in Physical Workstations
Quadro in traditional desktop and mobile
workstations



Quadro in the Data Center Quadro workspaces virtualized from the data center with Quadro vDWS



QUADRO vDWS

NVIDIA delivers Quadro vDWS features anywhere, on any device



Security
Designs and IP secured in the datacenter



Data ProximityInteract with models as if data were in close proximity



Higher Consolidation & Resource Utilization
Ensure right-size allocation of resources



Management &
Monitoring
End-to-end visibility into
your infrastructure



Application Certification Support for major ISV applications



Enterprise Class Reliability
Support for mission critical drivers
and certified for OEM Servers

PROVEN QUADRO EXPERIENCE, ANYWHERE

Accelerating Design and Engineering Applications



Quadro in Physical Workstations
Quadro in traditional desktop and mobile
workstations



Quadro in the Data Center Quadro workspaces virtualized from the data center with Quadro vDWS



Quadro in the Cloud Quadro delivered from the cloud with Quadro Virtual Workstation (Quadro vWS)



QUADRO IN THE CLOUD



Scale up or down to the cloud

Supplement on-premises deployments with the cloud based virtual workstations



Enable burst workloads

Easily support seasonal demand and cyclical project needs



Adopt/evaluate newer GPU architecture

Test the latest technology like RTX risk free



Location based deployments

Ideal for remote offices, dispersed workforce, and contractors

ACCESSING NVIDIA QUADRO VIRTUAL WORKSTATION

WAYS TO ACCESS NVIDIA GPUS IN THE CLOUD

Simplify customer experience & simplify cloud



CSP Marketplace Daas & DaaS Managed Services

Quadro Certified ISV



ENTERPRISE BYOL

Extend enterprise deployment to the Cloud



NVIDIA Quadro Workstation Performance NVIDIA Tesla GPUs in the cloud power highperformance simulation, rendering, and design.



Flexibility in the Cloud

Scale up and down as your business needs change and pay for only what you need based on hourly usage.



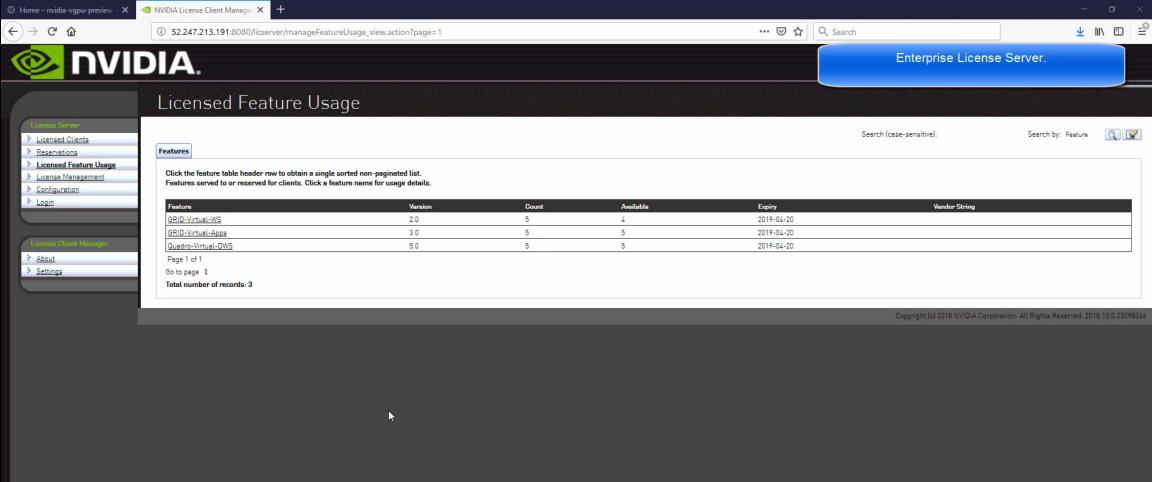
IT Speed and Agility

Set-up a GPU-accelerated virtual workstation in minutes, without having to manage endpoints or back-end infrastructure.



Enterprise-Deployment in the cloud

Deploy IT managed and secured VMs for multiple clouds and locations























NVIDIA QUADRO VIRTUAL WORKSTATION IN CSP MARKETPLACE

Same Quadro experience from the cloud to any device, anywhere



NVIDIA Quadro Workstation Performance NVIDIA Tesla GPUs in the cloud power highperformance simulation, rendering, and design.



Flexibility in the Cloud

Scale up and down as your business needs change and pay for only what you need based on hourly usage.



ISV Certifications

Get proven NVIDIA Quadro® benefits from the cloud and leverage Quadro ISV certifications.



Always-Up-to-Date

Your NVIDIA Quadro Virtual Workstation image is always optimized with the latest patches and upgrades.



IT Speed and Agility

Set-up a GPU-accelerated virtual workstation in minutes, without having to manage endpoints or back-end infrastructure.



Enterprise-Grade Security

Enjoy Quadro performance with the confidence of secure access from anywhere, with high availability



ALIBABA CLOUD AND NVIDIA OFFERINGS

The first vGPU enabled instance from the cloud

Available as a Technology Beta

Alibaba Offering	Use Case	GPU	
VGN5i	CAD, real-time simulation, rendering, photo-realistic imaging, and product design	Tesla P4	

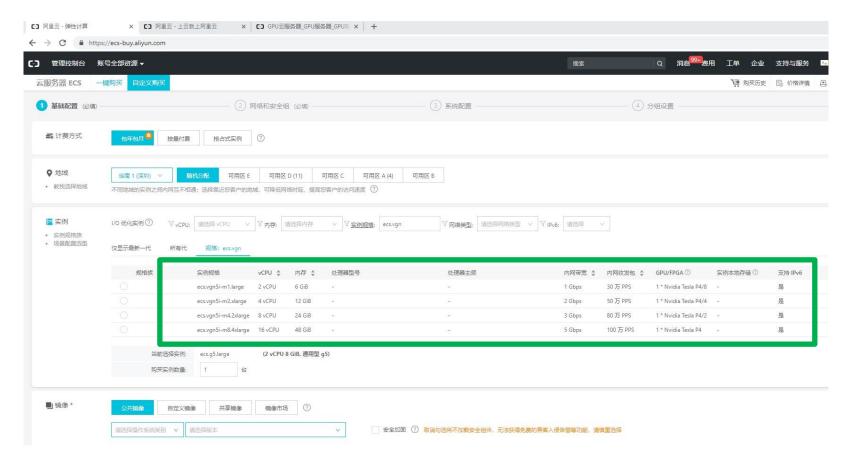
Coming Soon!

Alibaba Offering	Use Case	GPU	
VGN6i	ML Inference, Training, Remote Visualization Workstations, Video Transcoding	NVIDIA T4	



ALIBABA VGPU PRIVATE PREVIEW

The first vGPU enabled instance from the cloud - vgn5i



CLOUD ECOSYSTEM



CLIENTS

CLIENTS AND/OR PROTOCOLS



















DaaS



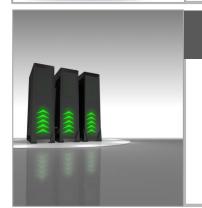


DaaS MANAGEMENT SERVICES









INFRASTRUCTURE PROVIDERS























WHAT'S NEW WITH GPU CLOUD COMPUTING?

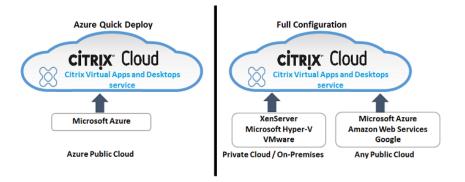
- NVIDIA Quadro Virtual Workstation launch in the Azure Marketplace Live
 - Support for Tesla P40, V100, P100 GPUs
 - Support for Ubuntu Server 18.04, Windows Server 2016
- NVIDIA Quadro Virtual Workstations In Ali Cloud Marketplace Preview
 - VGN5i KVM-based virtual GPU computing instance on Tesla P4
 - VGN6i on NVIDIA T4 in the future
- NVIDIA T4 on GCP available today and Quadro vWS beta for marketplace
- NVIDIA T4 on AWS on EC2

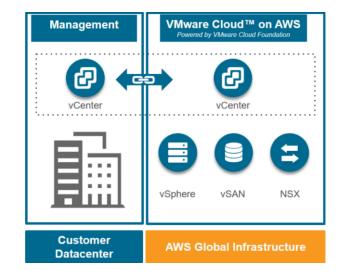


DAAS MANAGEMENT **SERVICES**

No hassle, simple deployment

- Management layer to control on-premises and public cloud deployments
- Supports a hybrid cloud, multi-cloud, strategy
- For seamlessly migrating and extending onpremises to the cloud
- CSP services that DaaS management service provider partners with can be leveraged
- NVIDIA Quadro vWS can be accessed via BYOL or CSP Marketplace offerings*











CLIENTS AND PROTOCOLS

- Thin clients like IGEL are compatible with Citrix Virtual Desktops with full integration of Citrix features
- Choose the right protocol for your specific needs like PCoIP for advanced display compression in M&E, Blast for VMware Horizon users, HDX for Citrix Virtual Desktop users



















Teradici Cloud Access Software with NVIDIA Quadro vWS on Azure can be quickly deployed to visualize applications remotely with the exceptional performance of the PCoIP protocol — on any device, including ultra-secure PCoIP 7ero Clients.

David Smith, CEO of Teradici



NEVER MISS A MOMENT OF EXCITEMENT

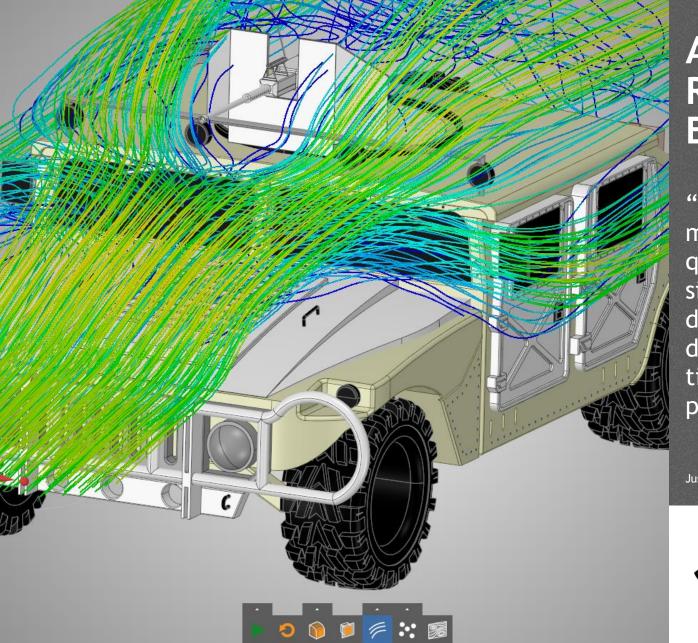
"When spikes in production demand occur, particularly around major broadcast events like the Olympics or the World Cup, time and budget to set up new temporary editors are a big problem. With Quadro Virtual Workstation on NVIDIAT4 GPUs in the GCP marketplace, I have access to the same Quadro experience on-demand and from anywhere. I can use critical applications like Adobe Premiere Pro, apply GPU-accelerated effects, reposition, scale and rotate clips with a native, workstation-like experience."

Alvaro Calandra, Consultant and Adobe Certified Master Instructor, ElCanal.com









A BREAKTHROUGH IN REAL-TIME SIMULATION EXPERIENCE

"With Quadro vWS from the Azure marketplace, design engineers can quickly and easily interact with simulations in real time and iterate design alternatives remotely, on any device, resulting in significant cost and time reductions in the development phase."

Justin Hendrickson, director of product management at ANSYS









GeForce NOW CLOUD SERVICE RUNS ON GRID

Play your favorite PC games on nearly any device anywhere you go like LAYERUNKNOWN'S BATTLEGROUNDS, Fortnite, and more from Steam, Uplay and other popular digital stores. Games load faster and are always up-to-date with the latest patches.









Cure for Alzheimer's and Parkinson's draws closer with neuron simulation boosted by cloud-based NVIDIA GPUs

Neurological disorders such as Alzheimer's and Parkinson's diseases afflict millions of people worldwide, yet no known cure is in sight. Biotech startup NeuroInitiative is working to change that by harnessing NVIDIA graphics processing units (GPUs) in Microsoft Azure to run neuron pathway simulations faster. With its high-performance computing simulation tool, NeuroInitiative is hopeful that it can cut today's 12-to-20-year drug development period in half.







Products and Services

Microsoft Azure Azure Storage Azure Virtual Machines NC-series Azure Virtual Network

Organization Size

10 employees

Industry

Health Provider

Country United States





GPU CLOUD COMPUTING DEMOS

Google

 Visual Studio on T4: Accelerate content creation on the cloud



Microsoft

- Windows Virtual Desktop and Workspot running CAD/CAM applications
- Quadro Virtual Workstation running Ansys Discovery Live









Virtual GPU Test Drive

https://www.nvidia.com/tryvgpu



NVIDIA Virtual GPU Website

www.nvidia.com/virtualgpu



NVIDIA Virtual GPU YouTube Channel

http://tinyurl.com/gridvideos



Questions? Ask on our Forums

https://gridforums.nvidia.com



NVIDIA Virtual GPU on LinkedIn

http://linkd.in/QG4A6u



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