

QUADRO VIRTUAL WORKSTATION ON MICROSOFT AZURE

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Quick Start Guide

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Chapter 1. CREATING AND USING AN NVIDIA QUADRO VIRTUAL WORKSTATION INSTANCE FROM THE MICROSOFT AZURE MARKETPLACE

NVIDIA[®] Quadro[®] Virtual Workstation on Microsoft Azure is an NVIDIA Virtual Machine Image (VMI) preconfigured with Quadro Virtual Workstation software and NVIDIA GPU hardware. The NVIDIA Quadro driver is preinstalled on the VMI and NVIDIA ensures that the image is always up to date with the latest patches, upgrades, and Quadro ISV certifications. Support and technical information are available to help you get started in community forums and additional resources.

1.1. Creating a GPU-Accelerated Virtual Workstation

Prepare for creating a GPU-accelerated virtual workstation from the Microsoft Azure marketplace as follows:

- Ensure that you have a Microsoft Azure account and an active subscription.
- Decide which size of virtual machine (VM) you want to create.

For information about the VM sizes that support Quadro Virtual Workstation, see *Quadro Virtual Workstation on Microsoft Azure Release Notes*.

- If you are creating an Ubuntu VM and want to use SSH public key authentication for the administrator account, generate an SSH public key.
- 1. In a web browser, log on to Microsoft Azure portal (https://portal.azure.com).
- **2.** Go to the NVIDIA Quadro Virtual Workstation listing for the guest OS that you want to use:
 - ▶ NVIDIA Quadro Virtual Workstation WinServer 2016
 - NVIDIA Quadro Virtual Workstation Ubuntu 18.04



3. Click the **Plans + Pricing** tab to view hourly pricing for the Quadro Virtual Workstation product.

There are also additional Microsoft Azure infrastructure costs for the GPU, memory, and storage.

Products > NVIDIA Quadro	Virtual Workstation - '	WinServer 2016								
	NVIDIA C	Quadro Virt _{ration}	ual Wo	orksta	ition - V	VinSer	ver 2016			
	Overview Pl	ans + Pricing Re	views							
The cost of running this product is a combination of the selected software plan charges plus the Azure infrastructure costs for the virtual machines on which you will be running this software. Your Azure infrastructure price might vary if you have enterprise agreements or other discounts.										
GET IT NOW	To view pricing in a di	ifferent currency, change the	billing country/r	egion. Cost	s might vary by de	ployment regio	n.			
SAVE FOR LAT	Software plan de	etails								
Pricing information Starting at \$0.20/hour + Azure infrastructure costs	NVIDIA Quadro Virta version 18.11.1	ual Workstation - WinServ	ar 2016				Starting at \$0.20/hour			
Categories Compute	Pricing by virtua	l machine instance	Download tab	le as CSV						
Mobile Analytics Management Tools	Show: O Publ	lisher recommendations	 All virtual mas 	chine instan	ces		Reset filters			
Support Support	Cores (1 to 128)			AM(OGB to :	3800GB)		3800			
Legal License Agreement Privacy Policy	Virtual machine categ	pory Region		lisk Space All	~	Drive Type All	~			
		Virtual Machine			Configuration		Co	t per hour		Total cost
	Instance	Category	Cores	RAM	Disk Space	Drive Type	Infrastructure Cost	Software Cost	Hourly	Monthly
	B1MS*	Standard	1	2GB	4GB	SSD	\$0.025	\$0.20	\$0.225	\$167.40
	B1S*	Standard	1	1GB	2GB	SSD	\$0.014	\$0.20	\$0.214	\$159.216
	B2MS*	Standard	2	8GB	16GB	SSD	\$0.099	\$0.20	\$0.299	\$222.456

4. Select your closest region and set the **Publisher recommendations** option to see the VM sizes in the selected region that support Quadro Virtual Workstation.

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Not all VM sizes that support Quadro Virtual Workstation are available in all regions.

NVIDIA.	NVIDIA Corp			tual W ^{eviews}	/orksta [.]	tion - V	VinServer 2	016			
		e cost of running this product is a combination of the selected software plan charges plus the Azure infrastructure costs for the virtual machines on which you will be running this software. ur Azure infrastructure orice might yaur 4 you have enterprise agreements or other discounts.									
GET IT NOW	To view pricing in a	view pricing in a different currency, change the billing country/region. Costs might vary by deployment region.									
SAVE FOR LAT	SAVE FOR LAT Software plan details										
Pricing information Starting at \$0.20/hour + Azure infrastructure costs	NVIDIA Quadro Vin version 18.11.1	tual Workstatio	n - WinSer	ver 2016			Starting at \$0.20/hou				
Categories Compute Mobile Analytics Support Support Legel License Agreement Privacy Policy	5,	Region The cublisher recommends the following S virtual machine instances for use with this software									
	Virtual	Machine			Configuration		Co	t per hour		Total cost	
	Instance	Category	Cores	RAM	Disk Space	Drive Type	Infrastructure Cost	Software Cost	Hourty	Monthly	
	NC6SV2*	GPU	6	112GB	336GB	HDD	\$2,493	\$0.20	\$2.693	\$2,003.592	
	ND65*	GPU	6	112GB	336GB	HDD	\$2,493	\$0.20	\$2.693	\$2,003.592	
	ND12S*	GPU	12	224GB	672GB	HDD	\$4.986	\$0.20	\$5.186	\$3,858.384	
	ND24S*	GPU	24	448GB	1344GB	HDD	\$9.972	\$0.20	\$10.172	\$7,567.968	
	NC6SV3* *Premium storage is a	GPU vailable for this ty	6 be of virtual	112GB machine. Learn	336GB more	HDD	\$3.428	\$0.20	\$3.628	\$2,699.232	

- **5.** If the VM size that you want to use is not listed, select a different region until you find the VM size that you want.
- 6. Click **GET IT NOW** in the right column to view the details of the instance.

NVIDIA.	NVIDIA NVIDIA Cor Overview	•		tual V ^{eviews}	/orksta	tion - W	/inServer 20	16		
GET IT NOW SAVE FOR LAT Viding information Starting at 5020/noar Axue infastructure cots Categories Caregories (separt support testal unconseq Approxement Newsy Policy)	Software NVIDIA Qu version 18.1 Pricing b NV Show:	VIDIA. By NVIDIA ftware plan VIDIA Quadro Via	A Quadro A Corporatio	Virtual Wo n kstation - W		finServer 2016	I agree to the provider' and privacy policy and that the rights to use the not come from Niccos Microsoft is the provide Asure Marketplace is gr separate terms.	X Items of use inderstand is product do ft, unless r. Use of wermed by	ı which you will be	running this software.
	Instance NC6SV2* ND65* ND125* ND125*	Category Category GPU GPU GPU GPU	Cores 6 6 12 24	RAM 112GB 112GB 224GB 448GB	Conspiration Disk Space 336GB 336GB 672GB 1344GB	Drive Type HDD HDD HDD HDD	Cost Infrastructure Cost \$2.493 \$4.996 \$9.972	er hour Software Cost \$0.20 \$0.20 \$0.20 \$0.20	Hourly \$2.693 \$2.693 \$5.186 \$10,172	Total cost Monthly \$2,003.592 \$3,858.384 \$7,567.968

7. Click **Continue** to be redirected to the Microsoft Azure portal.

Microsoft Azure	O Search resources, services, and docs
×	Home > NVIDIA Quadro Virtual Workstation - WinServer 2016
+ Create a resource	NVIDIA Quadro Virtual Workstation - WinServer 2016 🖈 🗆 ×
🛖 Home	Using the NVIDIA Virtual Machine Image (VMI) with the Quadro Virtual Workstation software in
🗔 Dashboard	the Azure marketplace, customers can easily spin up a VM running on Windows Server 2016 in
E All services	minutes. Easily configure with the NVIDIA GPU instance, vCPU, memory, and storage you need, without having to purchase any physical hardware and infrastructure. IT only needs to install
🛨 FAVORITES	applications and users are up and running. Benefits include:
III resources	Quadro Workstation Performance. NVIDIA Tesla® GPUs in the cloud power high-performance simulation, rendering, and design.
😭 Resource groups	simulation, rendering, and design.
🚫 App Services	ISV Certifications. Get proven NVIDIA Quadro® benefits from the cloud and leverage Quadro ISV certifications.
Inction Apps	IT Speed and Agility. Spin up a GPU-accelerated virtual workstation in minutes, without having
🥫 SQL databases	to manage endpoints or back-end infrastructure.
🥭 Azure Cosmos DB	Flexibility in the Cloud. Scale up and down as your business needs change and pay for only what you need based on hourly usage.
Virtual machines	
💠 Load balancers	Always-Up-to-Date. Your NVIDIA Quadro Virtual Workstation image is always optimized with the latest patches and upgrades.
🧮 Storage accounts	Enterprise-Grade Security Get the same Quadro experience from anywhere, with the assurance
Virtual networks	that sensitive data is protected in the cloud with redundancy and compliance.
Azure Active Directory	Learn More NVIDIA Virtual Workstation Solution Overview
🐣 Monitor	NVIDIA Virtual Workstation Homepage
🔷 Advisor	NVIDIA Virtual Workstation User Guide
Security Center	Version : GRID Software 7.1
Ost Management + Billing	Save for later
Help + support	
	Acc Description Create Description Watch to deploy programmatically? Get started -4

- 8. Click **Create** to go to the **Create a Virtual Machine** page.
- 9. On the **Basics** tab, provide the project details and instance details.

Basics Disks	Networking	Management Guest config Tags Review + create	
Complete the Basics customization.	tab then Review	x or Windows. Select an image from Azure marketplace or use your own customized image. - create to provision a virtual machine with default parameters or review each tab for full room Azure Marketplace	
PROJECT DETAILS			
Select the subscripti resources.	on to manage dep	loyed resources and costs. Use resource groups like folders to organize and manage all your	
 Subscription () 		NV-Software-GRID	,
Resource	group 🔒	BasicVM	
		Create new	
INSTANCE DETAILS			
 Virtual machine na 	ame O		
• Region 🛛		East US	,
Availability options (0	No infrastructure redundancy required	,
• Image 🛛		NVIDIA Quadro Virtual Workstation - WinServer 2016	,
		Browse all images and disks	
* Size 🛛		Standard ND6s	
		6 vcpus, 112 GB memory Change size	
ADMINISTRATOR AC	COUNT		
• Username			

- a) Select an existing subscription and select or create a resource group.
- b) Enter the name that you want for the VM.
- c) Select the region where you want the VM to be deployed.Ensure that the VM size that you want is available in the selected region. Not all VM sizes that support Quadro Virtual Workstation are available in all regions.
- d) Leave the image at its preset value.
- **10.** If you want a different image size than the default size, specify the size that you want.
 - a) Follow the **Change size** link.

Create a virtual machine	Browse available	virtual macrine size:	and then reasoned							
	,⊂ Nd		× Restore default	t filters						
Basics Disks Networking M	Management Try Add fit	er								
Create a virtual machine that runs Linux o	r windows, sei	f 198 VM sizes.	Subscription: NV-Soft	tware-GRID	Region: Ea	st US Currer	nt size: Standard_N	D6s		
Complete the Basics tab then Review + cri customization. Looking for classic VMs? Create VM from	VM SIZE 1	OFFERING 1	FAMILY	VCPUS 当	RAM (GB)	DATA DISKS	MAX IOPS	TEMPORARY STORA	PREMIUM DISK SUP	COST/MONTH (ESTI
PROJECT DETAILS	NC12	Standard	GPU	12	112	48	40000	680 GB	No	\$1,761.79
Select the subscription to manage deploy-	ed resources ai NC12s_v2	Standard	GPU	12	224	24	40000		Yes	\$3,858.38
resources.	NC12s_v3	Standard	GPU	12	224	24	40000		Yes	\$5,245.20
* Subscription 🕒	NV-Sof NC24	Standard	GPU	24	224	64	80000	1440 GB	No	\$3,374.78
 Resource group () 	BasicVN Create ne NC24r	Standard	GPU	24	224	64	80000	1440 GB	No	\$3,697.68
NSTANCE DETAILS	NC24rs_v2	Standard	GPU	24	448	32	80000		Yes	\$8,310.48
Virtual machine name 🚯	NC24rs_v3	Standard	GPU	24	448	32	80000		Yes	\$11,368.32
* Region ()	East US NC24s_v2	Standard	GPU	24	448	32	80000		Yes	\$7,566.48
Availability options 🛛	No infra NC24s_v3	Standard	GPU	24	448	32	80000		Yes	\$10,349.04
* Image 🛛	NVIDIA NC6	Standard	GPU	6	56	24	20000	380 GB	No	\$955.30
	Browse a NC6s_v2	Standard	GPU	6	112	12	20000		Yes	\$2,003.59
* Size 🚯	Standa NC6s_v3 6 vcpus	Standard	GPU	6	112	12	20000		Yes	\$2,693.28
	Change									
ADMINISTRATOR ACCOUNT										
Username 🖲										
Password										
Review + create P	revious	Prices press will appear	ented are estimates in your	r local currenc		zure infrastructure	applicable softwar	e costs, as well as any disc	ounts for the subscription a	nd location. Final char

- b) In the search box, start typing the VM size that you want.
- c) When you see the VM size that you want, select it and click **Select**.
- 11. Provide the credentials for the administrator account.

This account is created for you when the VM is created.

- a) Ubuntu VMs only: Select the authentication type.
- b) Enter your choice of user name for the administrator account.
- c) Provide the authentication for the user.
 - For password authentication, enter the password and confirm the password.
 - For SSH public key authentication, provide an SSH key.
- **12.** On the **Networking** tab, create or select a network security group and review the default settings to see if they meet your requirements and change any settings as required.

For example, if you want to communicate with the VM from outside the virtual network, create or select a public IP for your VM.

- **13.** On the remaining tabs for configuring the VM, review the default settings to see if they meet your requirements and change any settings as required.
- **14.** On the **Review + create** tab, review your selections and click **Create** to provision the VM.

Create a virtual machi	
 Validation passed 	
Basics Disks Networkin	Management Guest config Tags Review + create
PRODUCT DETAILS	
NVIDIA Quadro Virtual Work	
WinServer 2016	0.2000 USD/hr
by NVIDIA Corporation	
Terms of use Privacy policy	
Standard ND6s	Subscription credits apply ()
by Microsoft	2.4930 USD/hr
Terms of use Privacy policy	Pricing for other VM sizes
TERMS	
authorize Microsoft to bill my curr my Azure subscription; and (c) age	I legal terms and privacy tatement() associated with the Maketplace offering(). Sind above; if a payment method for the fire associated and the offering() of the same billing begaures patha Morcolf may share my contact, usage and transactional information with the provider() of other transactional activities. Microsoft does not provide rights for thrist-party offerings. See the nal details.
BASICS	
	NV-Software-GRID
Subscription	

Deployment is complete in a few minutes.

Microsoft Azure			,⊂ quadro			>_	G d	® 1	?	NVIDIA CORPORAT	
«	Home > CreateVm+nvidia.nvidia+quadro+v	vws-win2016-nvic	lia20190214164823 - Oven	iew							
+ Create a resource	CreateVm-nvidia.nvidia-quadr	ro-vws-win2	016-nvidia20190214	4164823 - Overview							* ×
🛧 Home		n Delete	Cancel 1 Redeploy	C) Defeash							
🛄 Dashboard	.> Search (Ctrl+./)	U Delete	Concert Kedepidy	Keinsn							
i∃ All services	🚴 Overview	o Your	deployment is co	omplete					Addition	al Resources	
- * FAVORITES	関 Inputs		1.5	inpiete						Windows Server 2016 VM	
III resources	Outputs	Go to i	resource							Quickstart tutorial	
Resource groups	📄 Template	<u></u>	Deployment name: Create Subscription: NV-Software	/m-nvidia.nvidia-quadro-vws-wi -GRID	n2016-nvidia2019021416482	3				Cosmos DB	
🔇 App Services		INVIDIA.	Resource group: BasicVM						Ø.	Quickstart tutorial	
Function Apps		DEPLOYME	NT DETAILS (Download)							Web App	
🗟 SQL databases		Start tin	ne: 2/14/2019 4:58:30 PM						1	Quickstart tutorial	
🥭 Azure Cosmos DB			n: 3 minutes 10 seconds ion ID: f2e30dc3-a3e3-4d46	-8d76-2a7d68d38d1b							
Virtual machines										SQL Database Quickstart tutorial	
Load balancers		RE	SOURCE	TYPE	STATUS	OPERATION DETAILS	5				
🧮 Storage accounts		🥥 isl	renwood	Microsoft.Compute/virtualMac	ок	Operation details				Storage Account Quickstart tutorial	
Virtual networks		🥥 isl	nerwood769	Microsoft.Network/networkInte	. Created	Operation details					
Azure Active Directory		🥥 isl	nerwood-nsg	Microsoft.Network/networkSec	ок	Operation details			Helpful L	late	
🐣 Monitor		🥥 isl	nerwood-ip	Microsoft.Network/publiclpAdd.	. ок	Operation details					
🔷 Advisor										ed with Azure chitecture center	

Connect to your VM as explained in one of the following topics:

- Starting and Connecting to a GPU-Accelerated Virtual Workstation on a Windows VM
- Install and configure Remote Desktop to connect to a Linux VM in Azure on the Microsoft documentation site

1.2. Starting and Connecting to a GPU-Accelerated Virtual Workstation on a Windows VM



For instructions for an Ubuntu VM, see Install and configure Remote Desktop to connect to a Linux VM in Azure on the Microsoft documentation site.

1. From the left menu, choose **Virtual machines** and in the list that appears, click the name of your VM.

dicrosoft Azure						B; 🖓 🕸 ?		ORATION
	Home > Virtual machines							
Create a resource	Virtual machines							\$
🕈 Home	+ Add Reservations Edit columns	Refresh Assign tags	▶ Start 🗘 Restart 🔳 St	op 🛍 Delete 🖂 Sen				
Dashboard		Meiresin 🖤 Assign tags	Potare Chestare = 30	op i Delete <u>Ja</u> sen	nues			
All services	Subscriptions: NV-Software-GRID							
FAVORITES	All resource	groups V All	types	✓ All locations	✓ All tag	5 ~	No grouping	
All resources	39 items							
Resource groups	NAME To	TYPE To	STATUS	RESOURCE GROUP	LOCATION 14	MAINTENANCE STATUS	SUBSCRIPTION	
App Services	Grid-RHEL73	Virtual machine	Stopped (deallocated)	Grid-RHEL73	East US		NV-Software-GRID	
Function Apps	Grid-RHEL732	Virtual machine	Stopped (deallocated)	Grid-RHEL73	East US		NV-Software-GRID	
SQL databases	Grid-RHEL733	Virtual machine	Stopped (deallocated)	Grid-RHEL73	East US		NV-Software-GRID	
Azure Cosmos DB	Grid-Server2016	Virtual machine	Stopped (deallocated)	Grid-Server2016	East US	-	NV-Software-GRID	
Virtual machines	Grid-SLES12SP3-1	Virtual machine	Stopped	Grid-SLES12SP3	Central India		NV-Software-GRID	
Load balancers	Grid-Ubuntu1604	Virtual machine	Stopped (deallocated)	Grid-Ubuntu1604	East US	-	NV-Software-GRID	
Storage accounts	Grid-Ubuntu1804	Virtual machine	Stopped (deallocated)	Grid-Ubuntu18.04	East US	-	NV-Software-GRID	
- Virtual networks	Grid-Win10-1809	Virtual machine	Stopped (deallocated)	Grid-Win10-1809	East US	-	NV-Software-GRID	
Azure Active Directory	Grid-Win10RS4	Virtual machine	Failed	Grid-Win10RS4	Central India		NV-Software-GRID	
Monitor	Grid-Win10RS5	Virtual machine	Stopped	Grid-Win10RS5	Central India	-	NV-Software-GRID	
Advisor	GridWin2012R2	Virtual machine	Stopped (deallocated)	BasicVM	East US		NV-Software-GRID	
Security Center	GridWin2012R2-1	Virtual machine	Stopped	GridWin2012R2	Central India	-	NV-Software-GRID	
Cost Management + Bill	isherwood	Virtual machine	Running	BasicVM	East US		NV-Software-GRID	
Help + support	<							>

- If necessary, start your VM from the Virtual machine page. Your VM might already be running because when your VM is deployed, it is started for you.
- **3.** Click the **Connect** icon and in the **Connect to virtual machine** panel that opens, click **Download RDP File**.

Microsoft Azure		,	>_	
«	Home > Virtual machines > isherwood			Connect to virtual machine
Create a resource	Virtual machines ペ ダ ×	isherwood		To improve security, enable just-in-time access on this VM. →
🟫 Home	+ Add O Reservations ···· More	Search (Ctrl+/)	Connect Start Restart Stop Capture	
🖬 Dashboard			Resource group (change)	RDP SSH
\equiv All services	Filter by name	👰 Overview	BasicVM	To connect to your virtual machine via RDP, select an IP address,
* FAVORITES	NAME *+	Activity log	Status Running	optionally change the port number, and download the RDP file.
👖 All resources 📃 🔨	Grid-RHEL73	Access control (IAM)	Location	* IP address Public IP address (168.61.41.64)
Resource groups	Grid-RHEL732	🛷 Tags	East US Subscription (change)	
🔇 App Services	Grid-RHEL733	X Diagnose and solve problems	NV-Software-GRID	* Port number 3389
Function Apps	Grid-Server2016	Settings	Subscription ID e8433a41-42a5-4e86-b5fd-0078a9f8160a	Download RDP File
🗟 SQL databases	Grid-SLES12SP3-1	A Networking		Download RDP File
💇 Azure Cosmos DB	Grid-Ubuntu1604	🛢 Disks		Inbound traffic to the Public IP address may be blocked.
Virtual machines	Grid-Ubuntu1804	👰 Size	Tags (change) Click here to add tags	You can update inbound port rules in the VM Networking page.
Load balancers	Grid-Win10-1809	Security		*
Storage accounts	Grid-Win10RS4	Extensions	Show data for last: 1 hour 6 hours 12 hours 1 day	You can troubleshoot VM connection issues by opening the Diagnose and solve problems page.
> Virtual networks	Grid-Win10R55	🐔 Continuous delivery (Preview)		
Azure Active Directory	GridWin2012R2	Availability set	CPU (average)	N
Monitor	GridWin2012R2-1	🚔 Configuration	~	
Advisor	isherwood	💲 Identity	25%	
3 Security Center	jfanelli	Properties	20%	
Cost Management + BilL.	MR-TBI-TestVM	Locks	10%	
🔮 Help + support 📃	· · · · · · · · · · · · · · · · · · ·	Automation script	_ 5%	

- 4. When the download is complete, double-click the RDP file to start a Remote Desktop Connection session on the VM.
- 5. When you are prompted, log in to the VM with the credentials for the administrator account that you specified when you created the VM.

You are now ready to run your design and engineering software.

1.3. Trying Out your GPU-Accelerated Virtual Workstation with **Ansys Discovery Live**

Ansys has endorsed the use of the **Ansys Discovery Live** app with NVIDIA Quadro Virtual Workstation on Microsoft Azure. If you can install the **Ansys Discovery Live** app in your VM, you can use the app to try out your cloud-based virtual workstation.

1. Open Ansys Discovery Live.



- **2.** Select the sample model of a truck.
- **3.** Make some adjustments to the sample model and notice that the changes are instantaneous as adjustments are made.



4. Instantly visualize your simulation and see the effects of changed geometry in seconds, not hours.

5. View circulation zones and particle flow to achieve a higher degree of confidence.





With NVIDIA Quadro Virtual Workstation images from the Microsoft Azure marketplace powered by NVIDIA Tesla[®] GPUs, you can now interact in real-time with simulation results and iterate design alternatives.

Appendix A. RESOURCES

- Quadro Virtual Workstation on Microsoft Azure Release Notes
- NVIDIA Quadro Virtual Workstation listings on Microsoft Azure marketplace:
 - NVIDIA Quadro Virtual Workstation WinServer 2016
 - NVIDIA Quadro Virtual Workstation Ubuntu 18.04

Appendix B. BENEFITS OF NVIDIA QUADRO VIRTUAL WORKSTATION FROM THE MICROSOFT AZURE MARKETPLACE

Enterprises need the power of the workstation and flexibility of the cloud.

Datasets are becoming larger, workflows are increasingly compute-intensive, and AI is being enabled in enterprise applications. Coupled with the need for greater mobility, security and collaboration, enterprises have turned to virtualization powered by NVIDIA Quadro Virtual Workstation to empower their employees and stay competitive. For enterprises that need added flexibility and business agility, cloud-based workstations have also become a popular option.

Enterprises can now benefit from GPU-accelerated cloud computing with NVIDIA Quadro Virtual Workstation from the Microsoft Azure marketplace. Using the NVIDIA Virtual Machine Image (VMI) with the Quadro Virtual Workstation software preinstalled, you can create and deploy a VM in minutes.

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