CREATING AN NVIDIA QUADRO VIRTUAL WORKSTATION INSTANCE
MICROSOFT AZURE MARKETPLACE

Quick Start Guide
## DOCUMENT CHANGE HISTORY

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Authors</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
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<td>Initial release</td>
</tr>
</tbody>
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Creating an NVIDIA Quadro Virtual Workstation Instance
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 Data Center Workstation (Quadro vDWS) 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 the NVIDIA Quadro Virtual Workstation (Quadro vWS) from the Microsoft Azure marketplace. Using the NVIDIA Virtual Machine Image (VMI) with the Quadro vWS software pre-installed, customers can spin up a VM in minutes. This document takes users through the steps involved to start using cloud-based virtual workstations today.
Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

Creating a GPU-Accelerated Virtual Workstation

To create a virtual machine from the Microsoft Azure marketplace, you need a Microsoft Azure account and an active subscription.

1. Login to the Microsoft Azure portal and find the NVIDIA Quadro Virtual Workstation listing.

The NVIDIA Quadro driver is preinstalled on the virtual machine instance. NVIDIA ensures that the image is always up-to-date with the latest patches and upgrades, and Quadro ISV certifications. Support and technical information is available to help you get started in community forums, as well as additional resources.

2. Select the Plans + Pricing tab to view hourly pricing for the software license. There are also additional Azure infrastructure costs for the GPU, memory, and storage.
3. Check **Publisher recommendations** option to see the virtual machine instance available. Select your closest region to see the available configurations of the ND6 instance.

4. Select **GET IT NOW** button in the right column to view a dialog box with the details of the instance. This instance uses the NVIDIA vGPU Software October 2018 release (a.k.a. 7.0).

5. Select **Continue** to be redirected to the Azure portal.

6. Select **Create** to go to the **Create a Virtual Machine** page.
7. Enter the **Subscription** and **Resource** group information.

8. Enter your **Virtual machine name**.

9. Select the **Region** where you want to deploy your instance. Your hardware instance is automatically sized and selected.

10. Enter your administrator credentials.
11. Select the **Networking** tab.
   Here you can create a brand new virtual network, public IP address, and security
group. All these are attached to the network the server runs on.

12. Fill in the details for the other tabs.

13. Select the **Review + create** tab.

14. Click on **Create** to provision the Virtual Machine.

15. Deployment is complete in a few minutes.
16. Select Virtual Machines on the left menu and find your Virtual Machine in the Azure page.

17. Start your Virtual Machine from the Virtual machine page.

18. Download the RDP file or directly connect to the IP address.
Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

Using the NVIDIA Quadro Virtual Workstation

In this example, we are running *Ansys Discovery Live* on our cloud-based virtual workstation.

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

1. Open *Ansys Discovery Live*.

2. Select the sample model of a truck. Notice the instantaneous changes as adjustments are made.

   Instantly visualize your simulation and see the effects of changed geometry in seconds, not hours.
You can also view circulation zones and particle flow to achieve a higher degree of confidence.

With Quadro Virtual Workstation software powered by the NVIDIA Tesla® P40 instances from the Azure Marketplace, you can now interact in real-time with simulation results and iterate design alternatives. Achieve a higher-degree of confidence in your designs today.
Resources

- NVIDIA Quadro Virtual Workstation Release Notes: https://docs.nvidia.com/grid/7.0/qvws-release-notes-microsoft-azure
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