

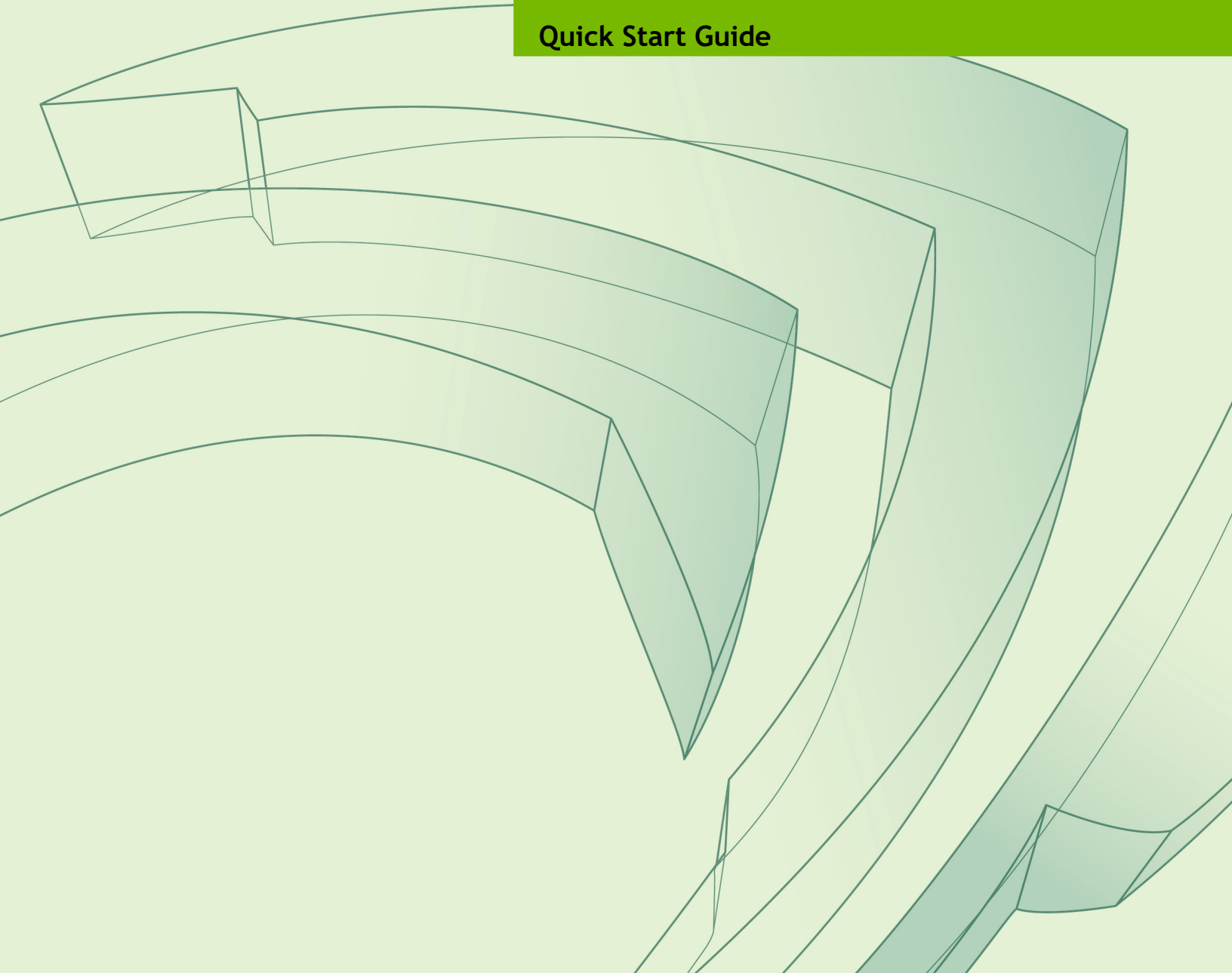


CREATING AN NVIDIA QUADRO VIRTUAL WORKSTATION INSTANCE

MICROSOFT AZURE MARKETPLACE

DU-09260-001_v01 | November 2018

Quick Start Guide



DOCUMENT CHANGE HISTORY

DU-09260-001_v01

Version	Date	Authors	Description of Change
01	October 25, 2018	NN, TS	Initial release

CREATING AN NVIDIA QUADRO VIRTUAL WORKSTATION INSTANCE FROM THE MICROSOFT AZURE MARKETPLACE

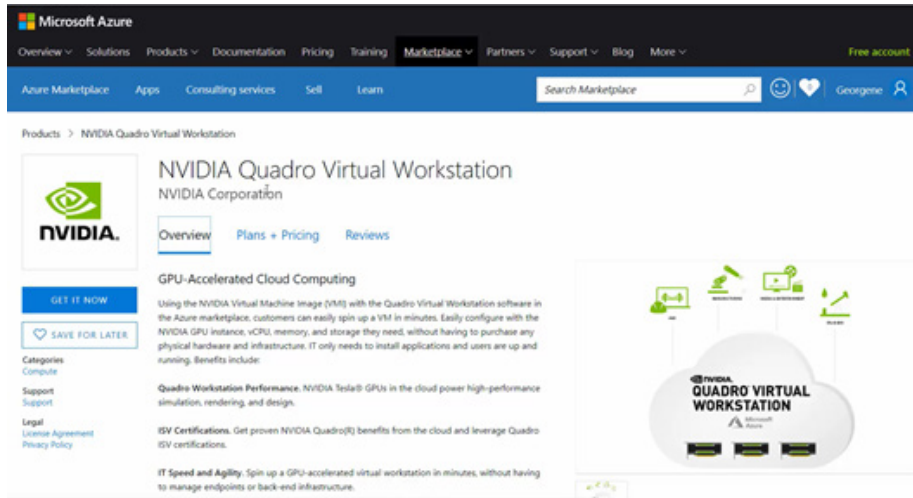
Enterprises need the power of the workstation and flexibility of the cloud. Datasets are becoming larger, workflows are increasingly compute-intensive, and AI is being enabled in enterprise applications. Coupled with the need for greater mobility, security and collaboration, enterprises have turned to virtualization powered by NVIDIA® Quadro® Virtual 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 a GPU-Accelerated Virtual Workstation

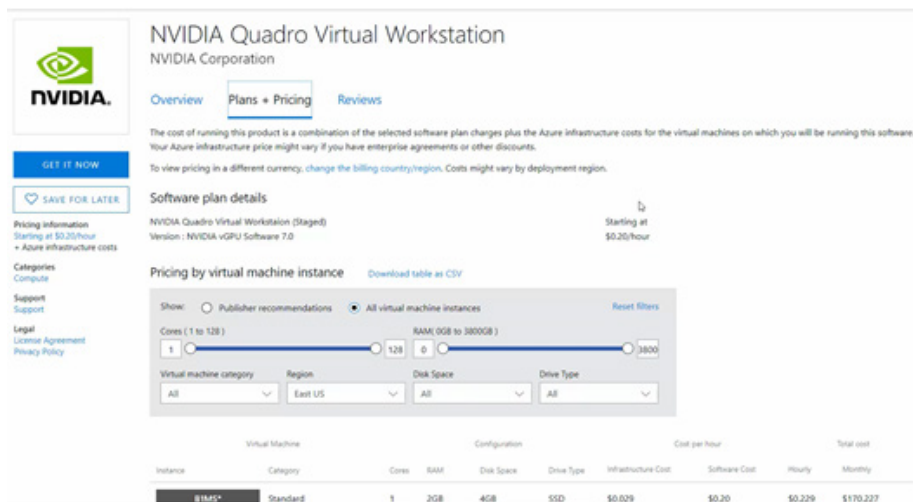
To create a virtual machine from the Microsoft Azure marketplace, you need a Microsoft Azure account and an active subscription.

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.

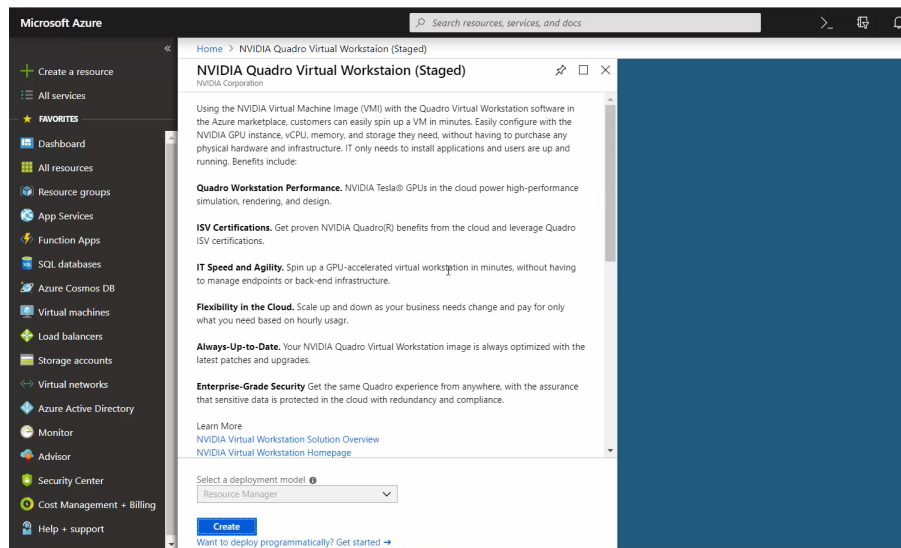


Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

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.

The screenshot shows the 'Create a virtual machine' page in the Azure portal. The breadcrumb navigation is 'Home > NVIDIA Quadro Virtual Workstation (Staged) > Create a virtual machine'. The page title is 'Create a virtual machine'. Below the title are tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Guest config', 'Tags', and 'Review + create'. The 'Basics' tab is selected. The page contains the following sections and fields:

- PROJECT DETAILS**
 - Subscription: NV-Software-GRID (dropdown menu)
 - Resource group: BasicVM (dropdown menu) with a 'Create new' link below it.
- INSTANCE DETAILS**
 - Virtual machine name: [] (text input field)
 - Region: East US (dropdown menu)
 - Availability options: No infrastructure redundancy required (dropdown menu)
 - Image: NVIDIA Quadro Virtual Workstation (Staged) (dropdown menu) with a 'Browse all images and disks' link below it.

At the bottom of the form are three buttons: 'Review + create' (highlighted in blue), 'Previous', and 'Next : Disks >'.

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.

Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

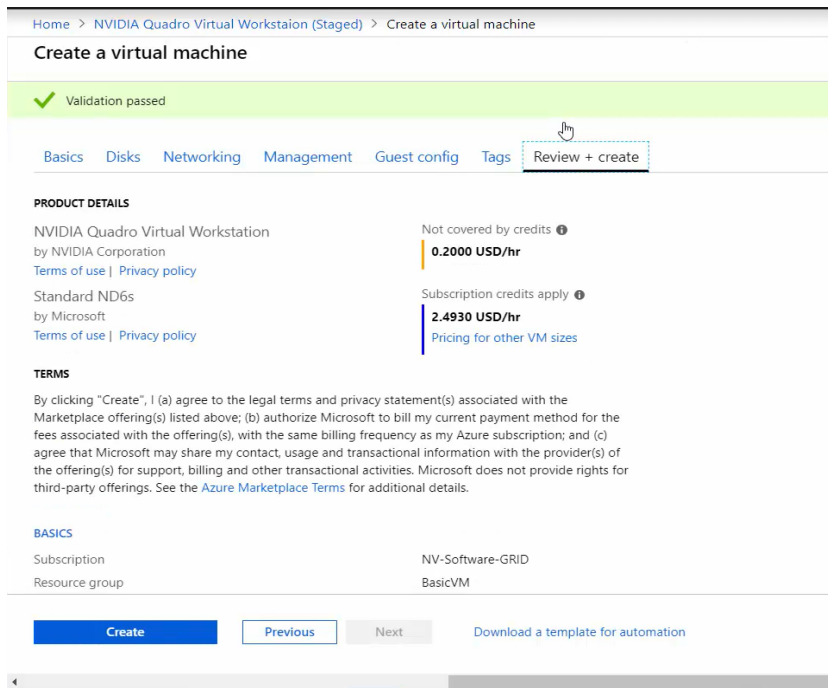
11. Select the Networking tab.

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.

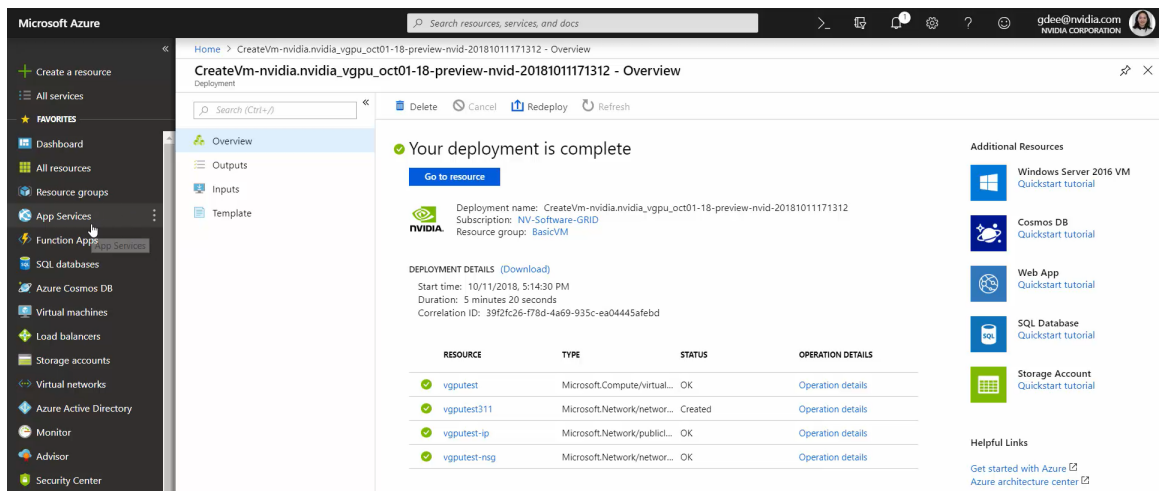
12. Fill in the details for the other tabs.

13. Select the Review + create tab.

14. Click on Create to provision the Virtual Machine.

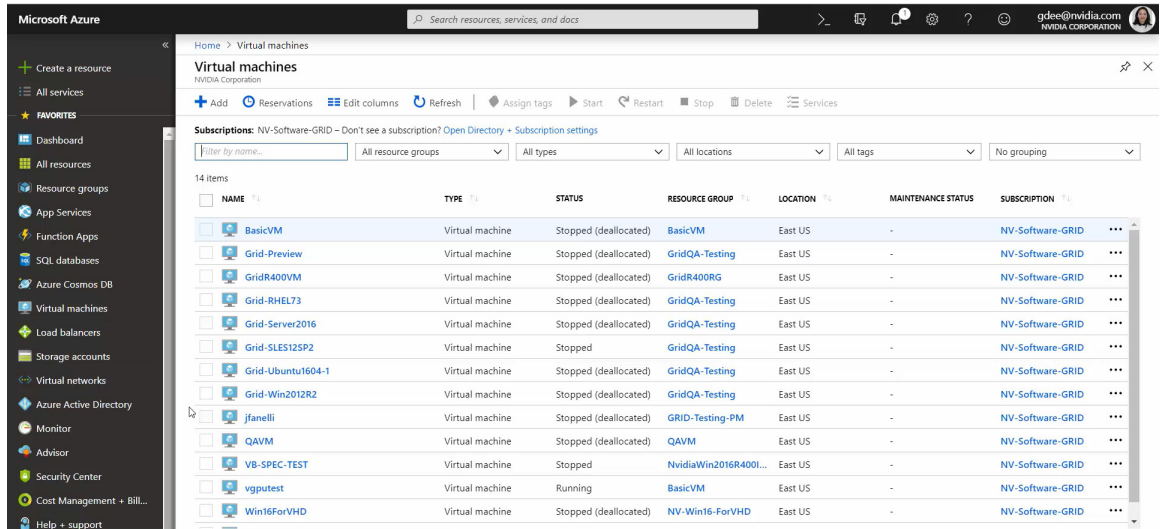


15. Deployment is complete in a few minutes.



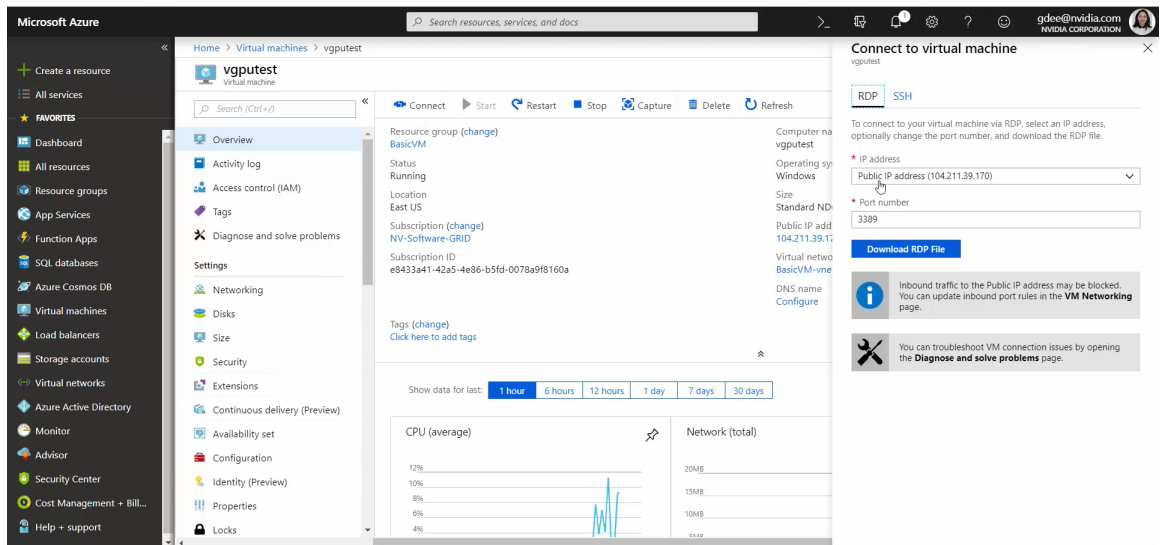
Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

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



Using the NVIDIA Quadro Virtual Workstation

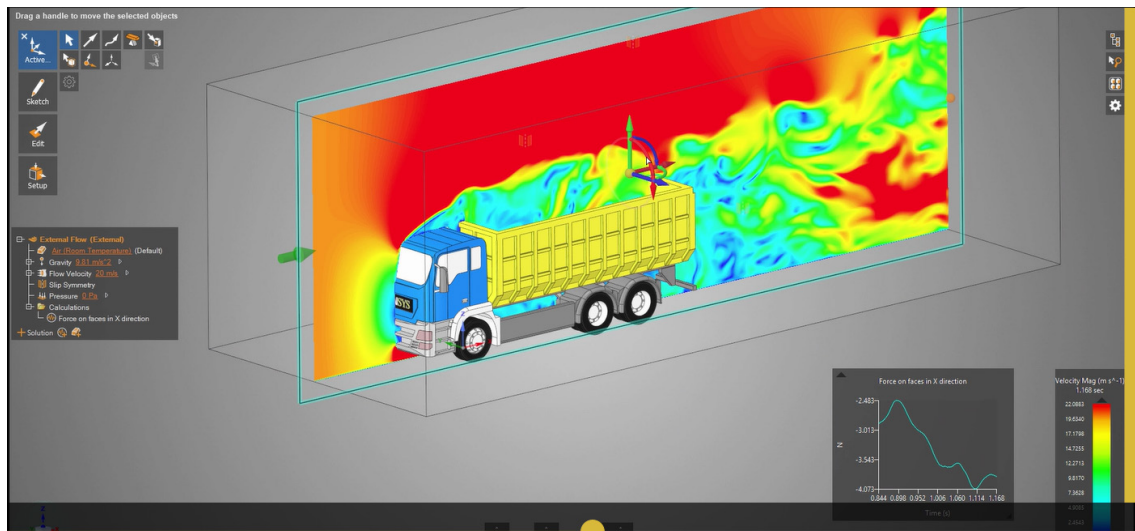
In this example, we are running *Ansys Discovery Live* on our cloud-based virtual workstation.

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

1. Open *Ansys Discovery Live*.



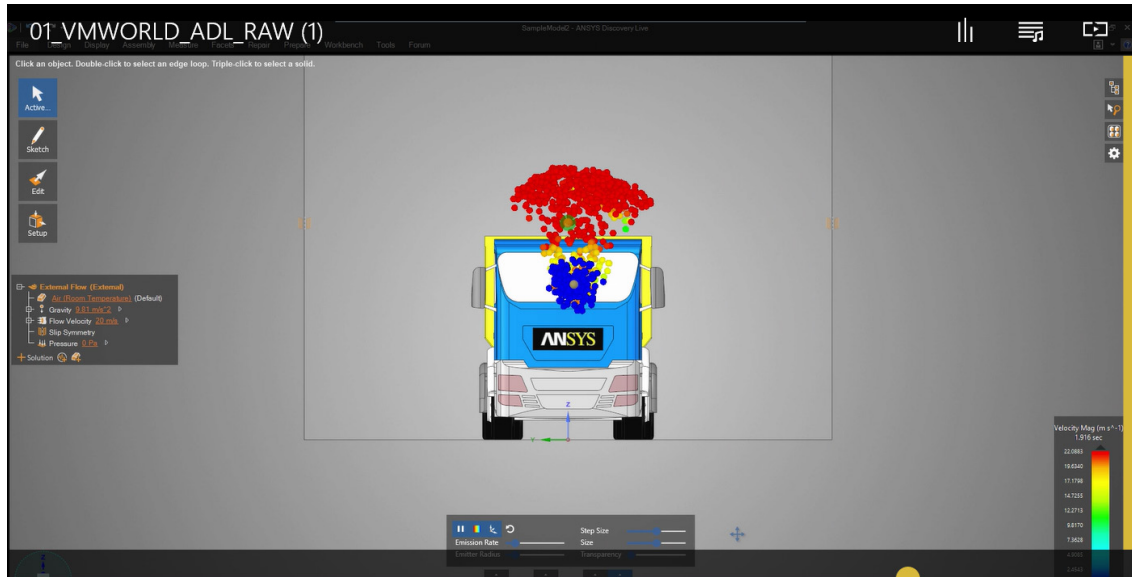
2. Select the sample model of a truck.
Notice the instantaneous changes as adjustments are made.



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

Creating an NVIDIA Quadro Virtual Workstation Instance from the Microsoft Azure Marketplace

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>
- ▶ NVIDIA Quadro Virtual Workstation Listing in Azure Marketplace:
<https://azuremarketplace.microsoft.com/en-us/marketplace/apps/nv-qvws-win2016>

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