



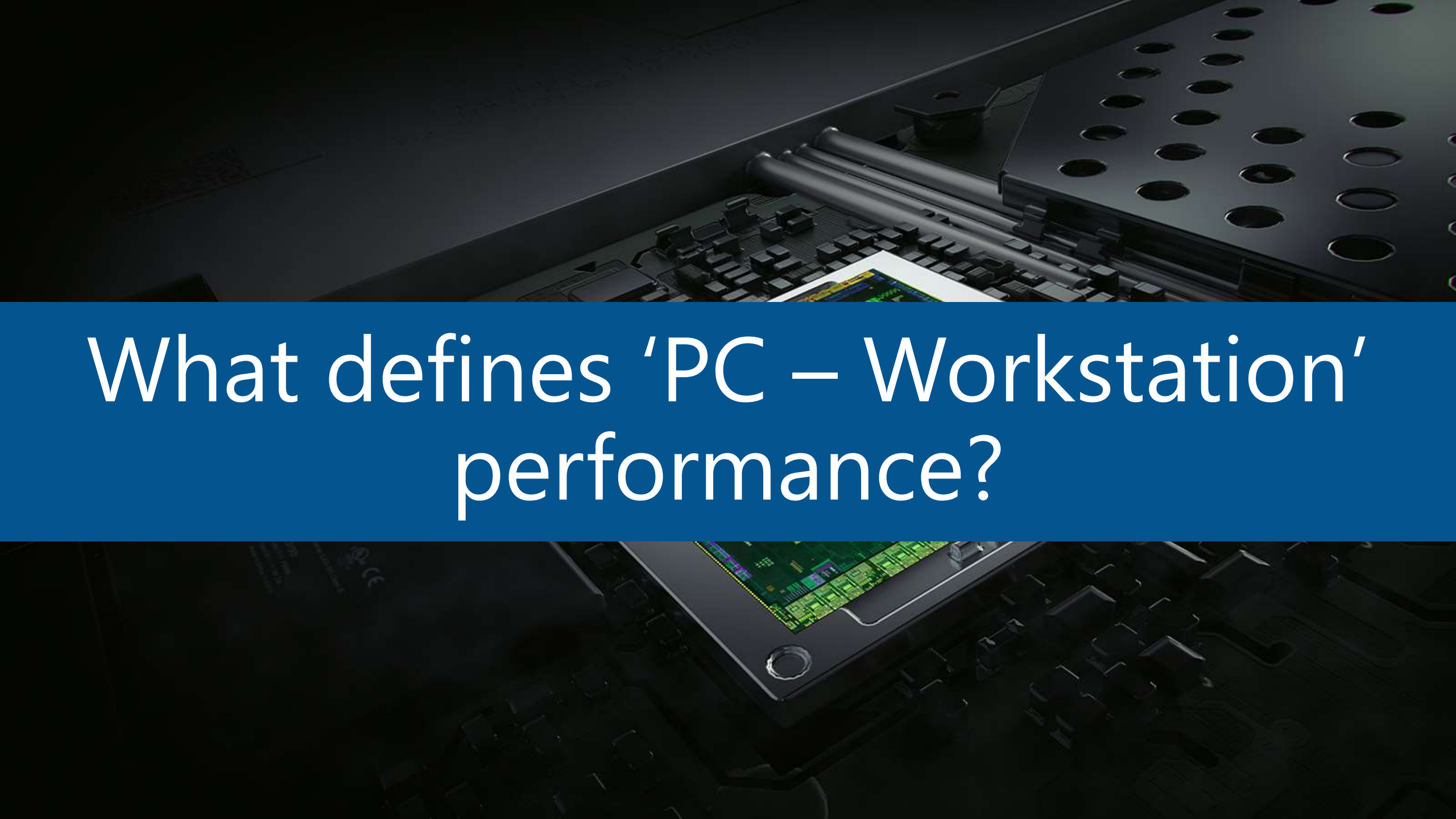
TeamRGE
Remoting Graphics Experts

The cloud in a practical way

Ruben Spruijt
Benny Tritsch

Supported by





What defines 'PC – Workstation'
performance?

Storage - Latency

Storage – Throughput/IOPS

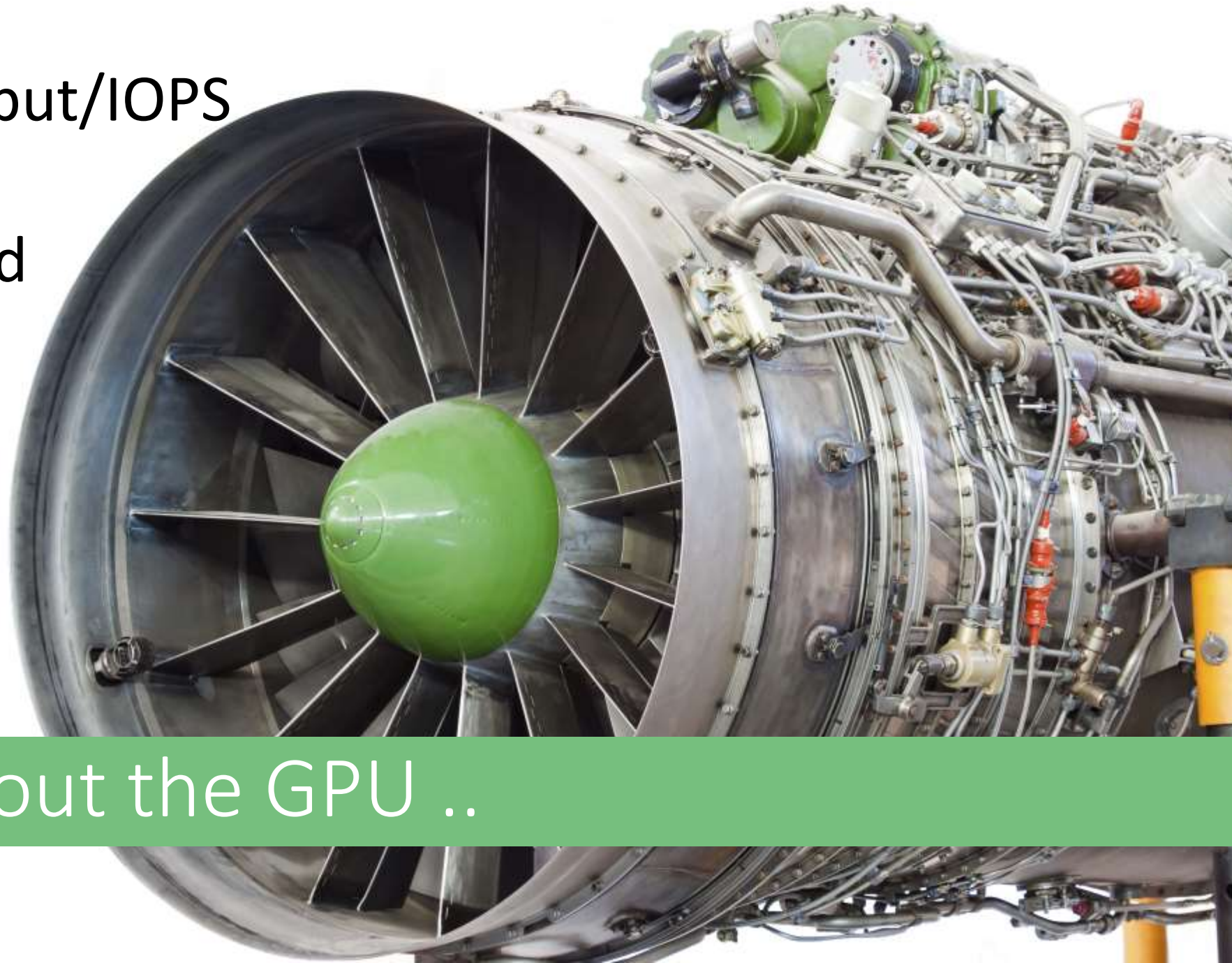
CPU – #Cores

CPU – #Clock Speed

Memory - #GB

GPU - #Speed

GPU - #VRAM



It isn't ONLY about the GPU ..



Storage = options and be-aware!

Select a VM size

Browse available virtual machine sizes and their features

✕

[Restore default filters](#)

+ Add filter

Showing 2 of 245 VM sizes. | Subscription: Microsoft Azure Enterprise | Region: West Europe | Current size: Standard_DS1_v2

VM SIZE	OFFERING	FAMILY	VCPUS	RAM (GI...	DATA DISKS	MAX IOPS	TEMPORARY STORA...	PREMIUM DISK SUPPORT	COST/MONTH (ESTI...
D8_v3	Standard	General purpose	8	32	16	16x500	200 GB	No	\$630.91
D8s_v3	Standard	General purpose	8	32	16	12800	64 GB	Yes	\$630.91



Microsoft Azure

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Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

DISK OPTIONS

* OS disk type ⓘ

Premium SSD



Enable Ultra SSD compatibility (Preview) ⓘ Yes No

Ultra SSD compatibility is not available for this VM size and location.

DATA DISKS

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	NAME	SIZE (GIB)	DISK TYPE	HOST CACHING
Create and attach a new disk	Attach an existing disk			

▼ ADVANCED



Microsoft Azure

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Create a new disk

Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. [Learn more about Azure Managed Disks](#)

* Disk type ⓘ	Premium SSD
* Name	REXVMTEST01_DataDisk_0
* Size (GiB) ⓘ	1023
* Source type ⓘ	None (empty disk)

ESTIMATED PERFORMANCE ⓘ

IOPS limit	5000
Throughput limit (MB/s)	200



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Create a new disk

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* Disk type ⓘ	Premium SSD	▼
* Name	REXVMTEST01_DataDisk_0	
* Size (GiB) ⓘ	100	✓
* Source type ⓘ	None (empty disk)	

ESTIMATED PERFORMANCE ⓘ

IOPS limit	500
Throughput limit (MB/s)	100



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Create a new disk

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* Disk type ⓘ	Premium SSD	▼
* Name	REXVMTEST01_DataDisk_0	
* Size (GiB) ⓘ	200	✓
* Source type ⓘ	None (empty disk)	

ESTIMATED PERFORMANCE ⓘ

IOPS limit	1100
Throughput limit (MB/s)	125



Microsoft Azure

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Create a new disk

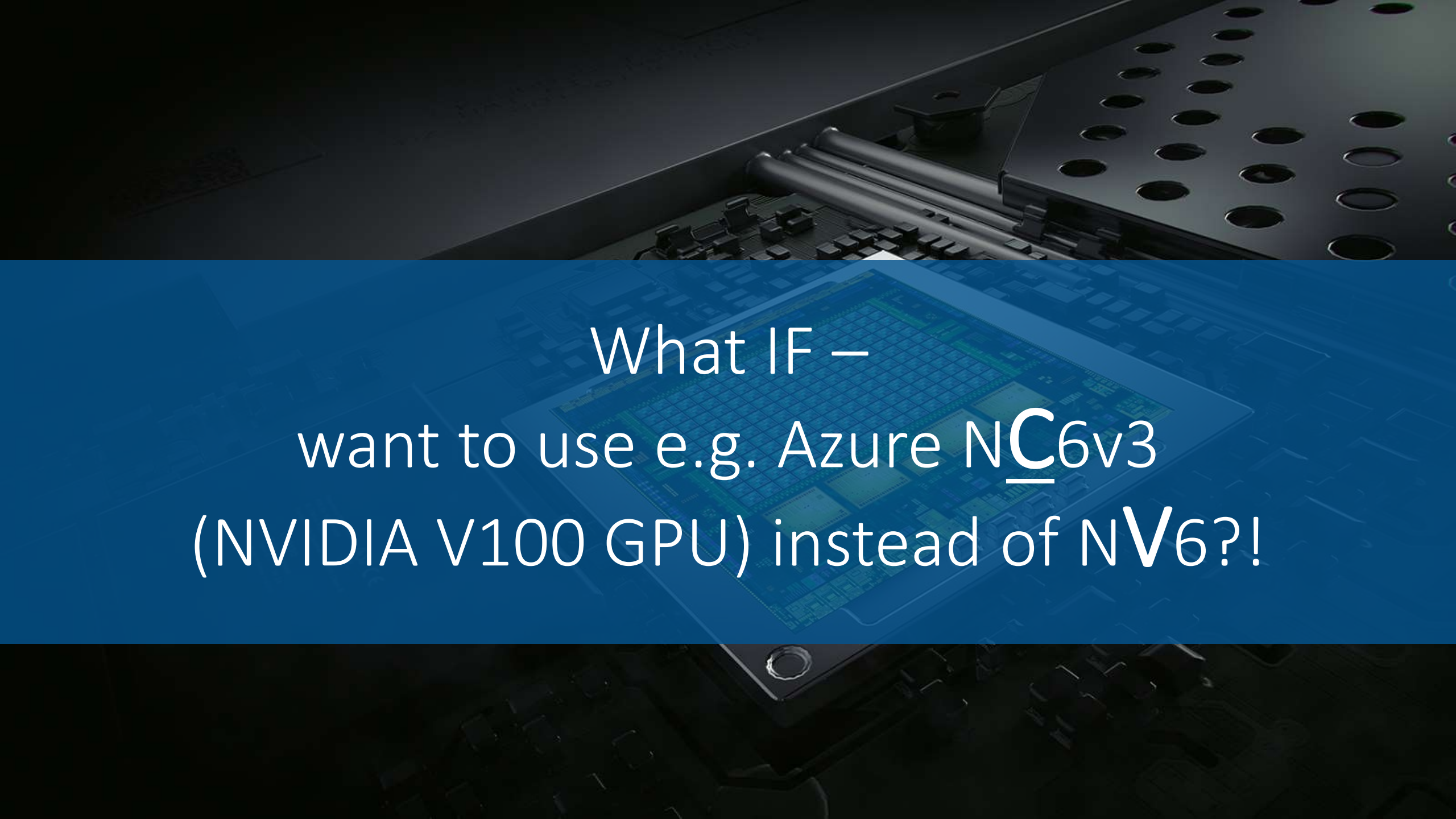
Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. [Learn more about Azure Managed Disks](#)

- * Disk type ? Premium SSD ▼
- * Name REXVMTEST01_DataDisk_0
- * Size (GiB) ? 400 ✓
- * Source type ? None (empty disk) ▼

ESTIMATED PERFORMANCE ?

IOPS limit 2300

Throughput limit (MB/s) 150



What IF –
want to use e.g. Azure NC6v3
(NVIDIA V100 GPU) instead of NV6?!

Device Manager

File Action View Help

- NC6v3WERD001
 - Computer
 - Disk drives
 - Display adapters
 - Microsoft Hyper-V Video
 - NVIDIA Tesla V100-PCIe-16GB
 - Floppy disk drives
 - Floppy drive controllers
 - Human Interface Devices
 - IDE ATA/ATAPI controllers
 - Keyboards
 - Mice and other pointing devices
 - Monitors
 - Network adapters
 - Ports (COM & LPT)
 - Print queues
 - Processors
 - Storage controllers
 - System devices

System

Control Panel > System and Security > System

Control Panel Home

View basic information about your computer

Windows edition

Windows Server 2016 Datacenter

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System

Processor: Intel(R) Xeon(R) CPU E5-2690 v4 @ 2.60GHz

Installed memory (RAM): 112 GB

System type: 64-bit Operating System, x64-based processor

Pen and Touch: Pen and Touch Support with 10 Touch Points

Computer name, domain, and workgroup settings

Computer name: NC6v3WERD001

Full computer name: NC6v3WERD001

Computer description:

Workgroup: WORKGROUP

Windows activation

Windows is activated [Read the Microsoft Software License Terms](#)

Product ID: 0037b-40000-00000-AA947

See also

[Security and Maintenance](#)

Task Manager

File Options View

Processes Performance Users Details Services

CPU 1% 2.59 GHz

Memory 3/112 GB (3%)

Ethernet S: 48.0 Kbps R: 0 Kbps

CPU Intel(R) Xeon(R) CPU E5-2690 v4 @ 2.60GHz

% Utilization 100%

60 seconds

Utilization	Speed	Maximum speed	2.59 GHz
1%	2.59 GHz	Sockets:	1
Processes:	Threads:	Handles:	Virtual processors:
70	1262	29066	6
			Virtual machine:
			Yes
			L1 cache:
			N/A

Up time

0:00:14:28

[Fewer details](#) | [Open Resource Monitor](#)

Device Manager

File Action View Help

← → 📅 ? 📅 🖨

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NVIDIA Control Panel

File Edit Desktop Help

← Back → 🏠

Select a Task...

- 3D Settings
 - Adjust image settings with preview
 - Manage 3D settings
- Licensing
 - Manage License

Manage License

You can enable additional features by applying a license.

License Edition:

- Quadro Virtual Data Center Workstation
- GRID Virtual Applications

ⓘ Your system is currently configured for GRID Virtual Applications. Enter license server details and apply.

Primary License Server:

Port Number:

Secondary License Server:

Port Number:

Description:

Typical usage scenarios:

[System Information](#)



Licensing (not Tech) .. BYOL, Cloud Ready?

Uhh, Service Limits ...?!



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Open Q&A



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Thanks!

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