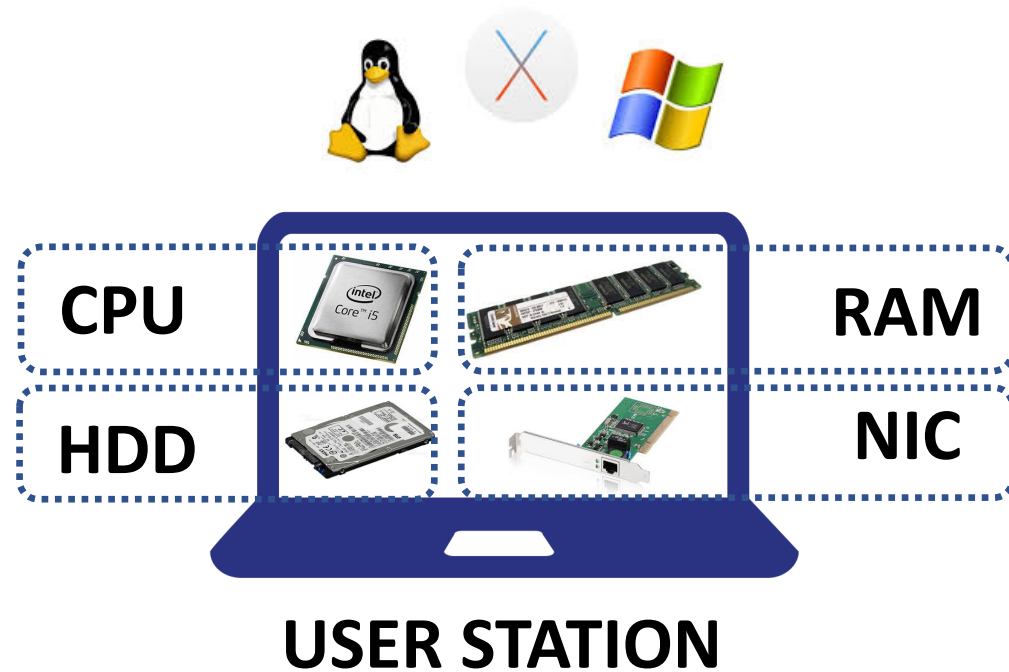


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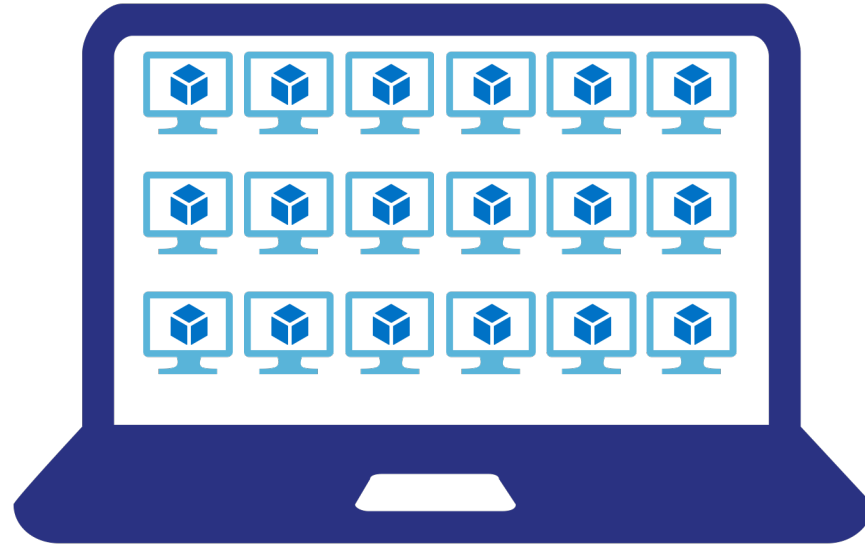
# Introduction to Azure Virtual Machines

# What's a Virtual Machine (VM) ?

- ❑ Virtual machines, or VMs, are software emulations of physical computers



# What's a Virtual Machine (VM) ?



**USER STATION or SERVER**

# VMs Use Cases

- ❑ Azure VMs represent Infrastructure as a Service (IaaS) Azure offering; with Azure VMs you don't have to buy and maintain the physical hardware that will run the VM
- ❑ VMs are great choice when:
  - ❑ Total control over the OS
  - ❑ Run custom software
  - ❑ Development and testing
  - ❑ Extend your datacenter (hybrid)

# VMs Types and Sizes in Azure

- ❑ Azure VMs are available in different sizes, being able to serve different use cases

Type	VM Sizes	Description
General Purpose	B, D, A	Balanced CPU and memory
Compute Optimized	F	High CPU, lower memory
Memory Optimized	E, D	High memory, lower CPU
Storage Optimized	L	High disk throughput and IOPS
GPU	N	Heavy traffic rendering and video editing
High Performance Compute	H	Most powerful CPU VMs

- ❑ <https://docs.microsoft.com/en-us/azure/virtual-machines/linux/sizes>

# Storage for VMs

- ❑ Azure managed disks are block-level storage volumes that are managed by Azure and used with Azure Virtual Machines
- ❑ Managed disks are like a physical disk in an on-premises server but they are virtualized; with managed disks, all you have to do is specify the disk size, the disk type and Azure will provision the disk
- ❑ <https://docs.microsoft.com/en-us/azure/virtual-machines/linux/disks-types>

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Thank you