

Microsoft Azure Fundamentals  
Training Bootcamp

# Azure Managed Disks Fundamentals 101

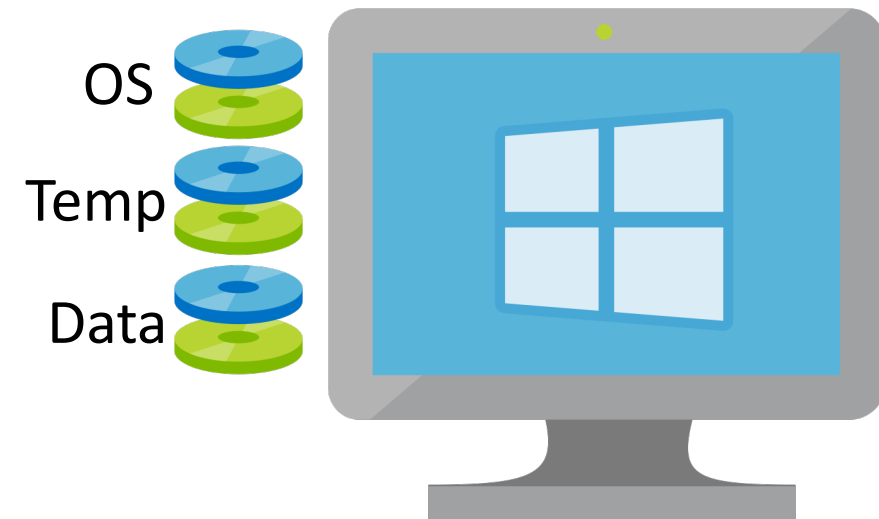
# Azure Managed Disks Introduction

- ❑ Azure managed disks are block-level storage volumes that are managed by Azure and used with Azure VMs
- ❑ What is Azure Managed Disks ?
  - ❑ Azure will manage the storage account for you that will store the \*.VHD file
- ❑ You only need to specify the disk size, the disk type and provision the disk
- ❑ Options: Standard HDD/SSD, Premium SSD, Ultra Disks



# Azure Disk Roles

- ☐ In Azure, there are currently three main disk roles:
  - ☐ OS disk (Windows, Linux)
  - ☐ Temporary disk
  - ☐ Data disk
- ☐ OS disk – pre-installed OS
- ☐ Temporary disk – short-term storage
  - ☐ Data persists a VM reboot
  - ☐ Power off – data is lost
- ☐ Data disk – Persistent data



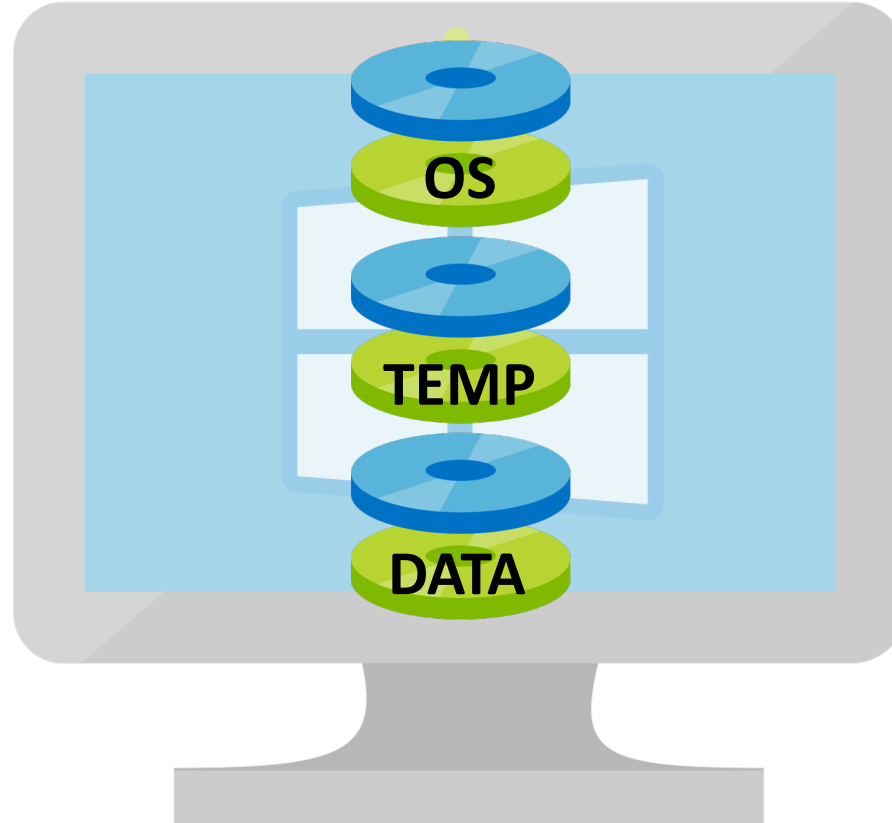
# Managed Disks' Benefits

- ❑ Highly durable and Highly available
  - ❑ 99,999% availability
  - ❑ 99.999999999999% (11 9's) -> Locally Redundant Storage
  - ❑ 99.9999999999999999% (16 9's) -> Geo-ZRS
- ❑ Deploy VMs simple and highly scalable
  - ❑ 50,000 VM disks of a type in a subscription per region
- ❑ Fully integrated with availability sets
  - ❑ Disks are isolated from each other to avoid a single point of failure (SPOF)

# Managed Disks' Benefits

- ❑ Fully integrated with availability zones
  - ❑ Disks are isolated from each other, protects you from datacenter failures
- ❑ Granular access control
  - ❑ Assign specific permissions for a managed disk to one or more users

# Azure Disks Hands-on Lab



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Thank you