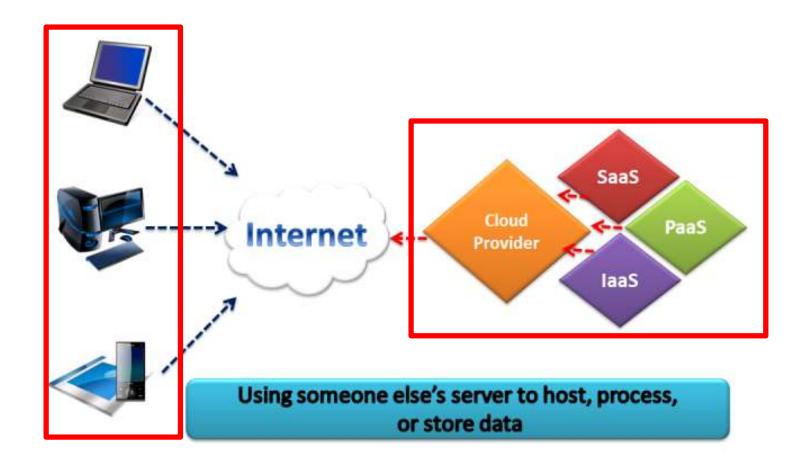
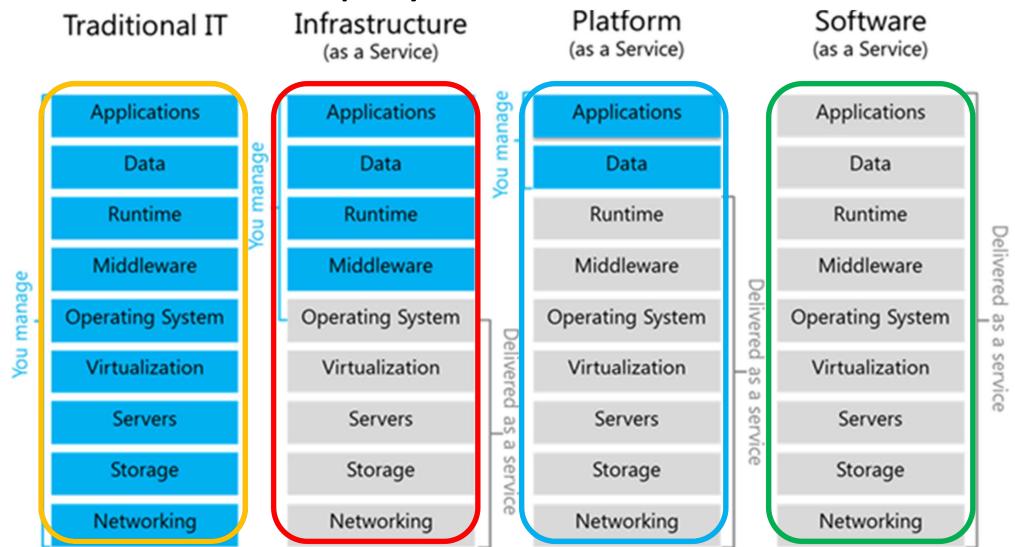
#### What is Cloud?



# Cloud Services Deployment Models



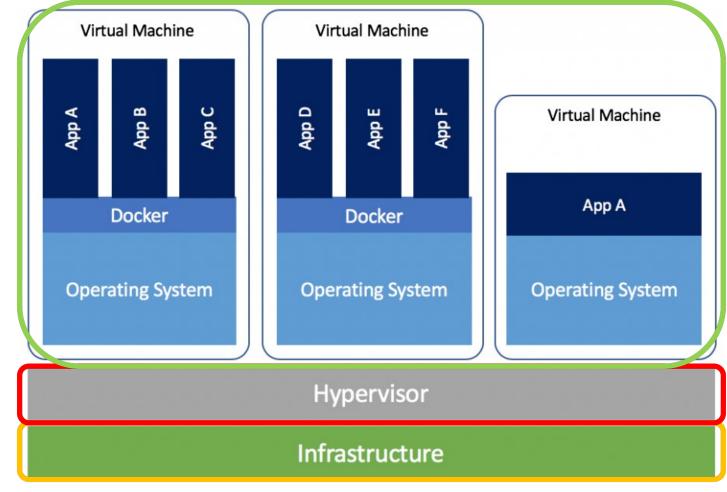
4 June 2023

2

#### Virtual Machines

VM technology allows multiple virtual machines to run on a single physical

machine



#### Introduction of Microsoft Azure

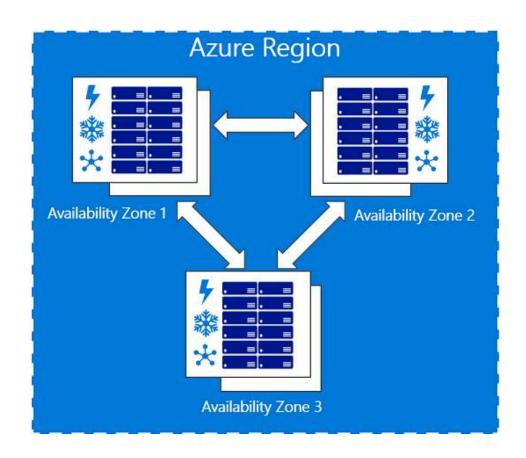
- Microsoft's public cloud platform
- Azure offers a large collection of services
  - PaaS
  - laaS
  - managed database service capabilities



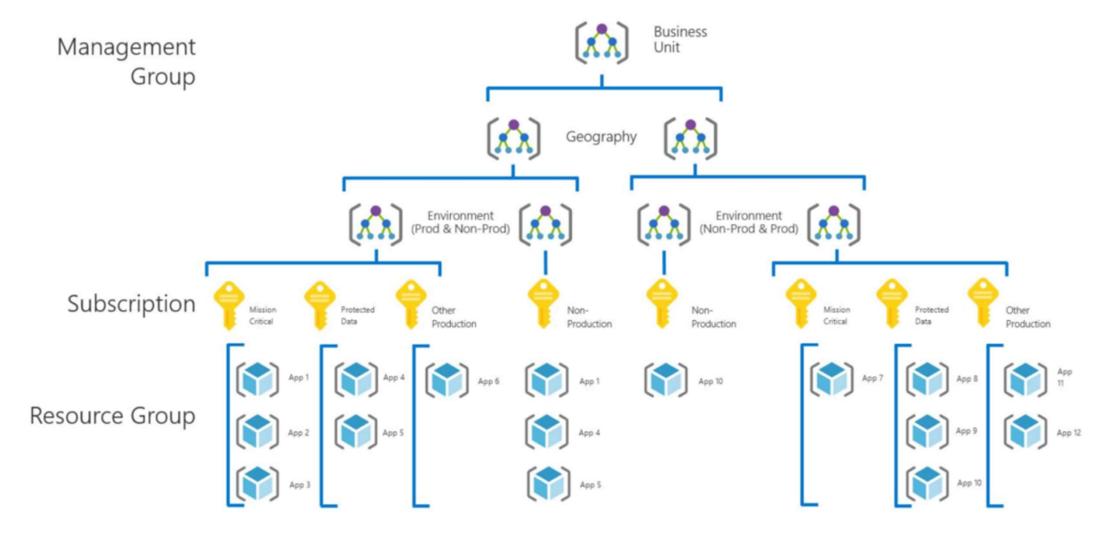
# Concept of Region & Availability Zone



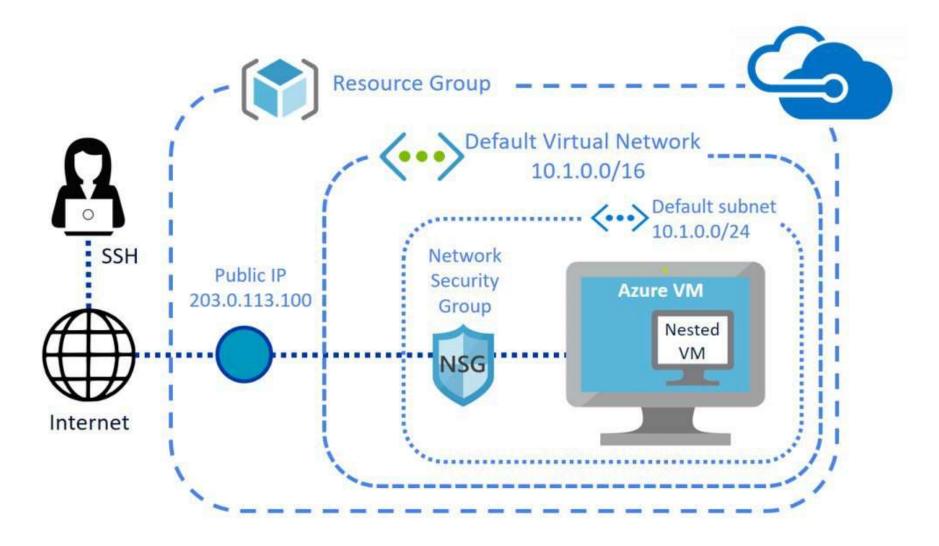
# Concept of Region & Availability Zone



#### Concept of Resource Group



#### Introduction of Azure Virtual Machine

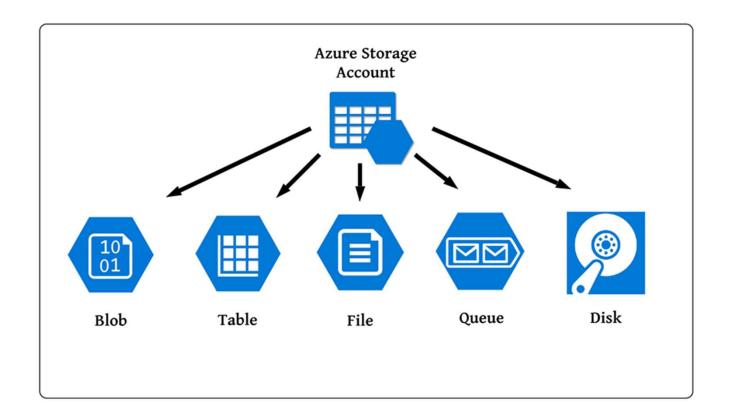


# Azure Storage Account

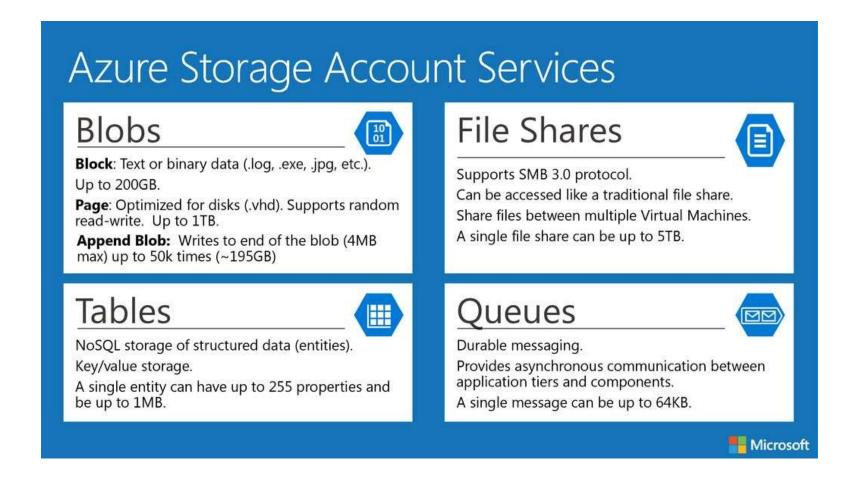
**Duration: 40-60 Minute with Labs** 

## Introduction to Storage Account

Provides a unique namespace in Azure for data



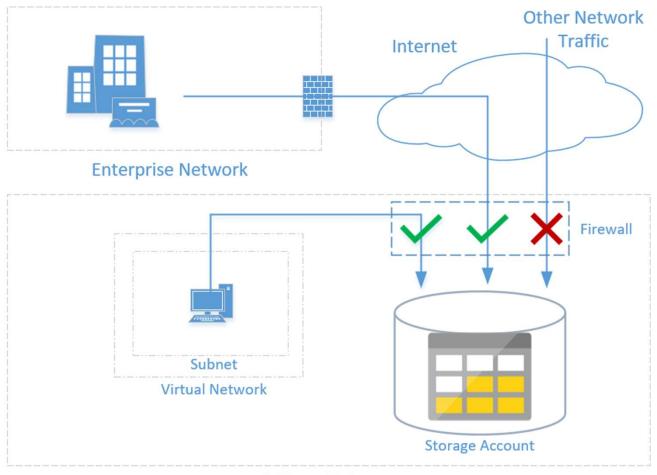
## **Core Storage Services**



# **Types of Storage Accounts**

Storage Account Type	Supported Services	Supported Performance Tiers	Replication Options
BlobStorage	Blob (block blobs and append blobs only)	Standard	LRS, GRS, RA-GRS
General-purpose VI	Blob, File, Queue, Table, and Disk	Standard premium	LRS, GRS, RA-GRS
General-purpose V2	Blob, File, Queue, Table, and Disk	Standard premium	LRS, GRS, RA-GRS, ZRS, ZGRS (preview), RA-ZGRS (preview)
Block blob storage	Blob (block blobs and append blobs only)	premium	LRS, ZRS (limited regions)
FileStorage	Files only	premium	LRS, ZRS (limited regions)

# Securing the Data



Microsoft Azure

# Lab: Planning and implementing storage

# Lab: Creating and manage Storage Accounts

• Duration: 5 minutes

# Lab: Create and manage containers

• Duration: 10 minutes

# Lab: Create & manage Blobs, Queues, Files & Tables

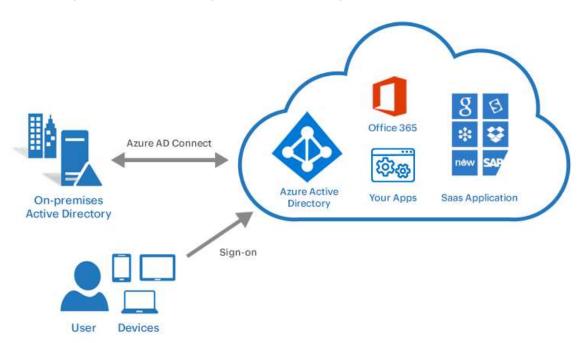
• Duration: 10 minutes

# Azure AD Authentication

**Duration: 1.5-2 hours including labs** 

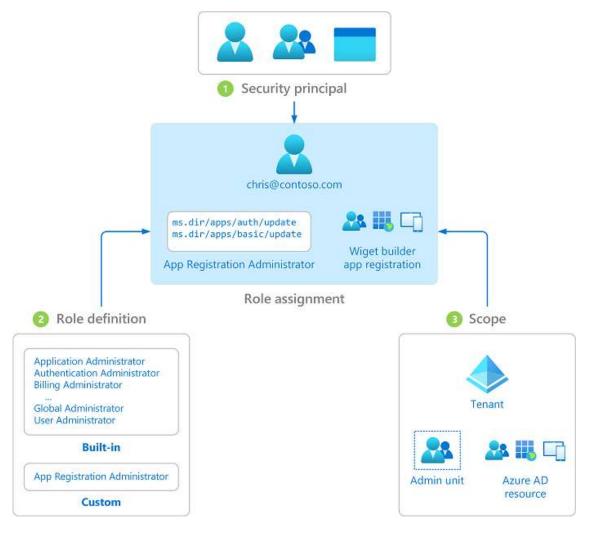
## What is Azure Active Directory?

- Cloud-based identity and access management (IAM) solution
- Provides
  - Single sign-on
  - Conditional access to guard against 99.9 percent of cybersecurity attacks.
  - Multifactor authentication



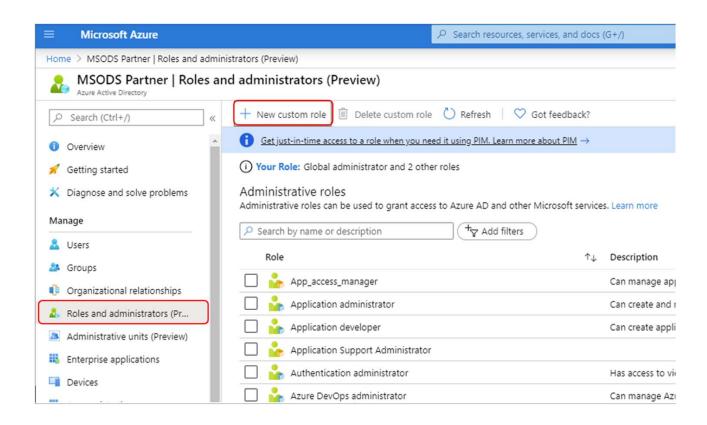
## Role Base Access Control (RBAC)

- Provides fine-grained access management of Azure resources.
- Segregates duties within team and grant only the amount of access to users that they need to perform their jobs



# Custom Roles (RBAC)

 If the Azure built-in roles don't meet the specific needs of your organization, you can create your own custom roles



#### Lab: Azure AD Authentication

Lab: How to create user and groups?

Lab: Implementation of permission

# Thanks