

Days: 4

Prerequisites: Successful Azure Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking. Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks. Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies. Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP). Understanding of resilience and disaster recovery, including backup and restore operations.

Audience: This course is for Azure Administrators. The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment. The Azure Administrator will provision, size, monitor, and adjust resources as appropriate. Successful Azure Administrators start this role with experience in virtualization, networking, identity, and storage.

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including users, groups, and role-based access control.
- Understanding of resilience and disaster recovery, including backup and restore operations.

Description: This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

OUTLINE:

LESSON 1 - DESCRIBE CLOUD COMPUTING

- What is cloud computing
- Describe the shared responsibility model
- Define cloud models
- Describe the consumption-based model
- Module assessment

LESSON 2 - DESCRIBE THE BENEFITS OF USING CLOUD SERVICES

- Describe the benefits of high availability and scalability in the cloud
- Describe the benefits of reliability and predictability in the cloud
- Describe the benefits of security and governance in the cloud
- Describe the benefits of manageability in the cloud
- Module assessment

LESSON 3 - DESCRIBE CLOUD SERVICE TYPES

- Describe Infrastructure as a Service
- Describe Platform as a Service
- Describe Software as a Service
- Module assessment

LESSON 4 - DESCRIBE THE CORE ARCHITECTURAL COMPONENTS OF AZURE

- What is Microsoft Azure
- Get started with Azure accounts
- Describe Azure physical infrastructure
- Describe Azure management infrastructure
- Module assessment

LESSON 5 - DESCRIBE AZURE COMPUTE AND NETWORKING SERVICES

- Describe Azure virtual machines
- Describe Azure virtual desktop
- Describe Azure containers

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- Describe Azure functions
- Describe application hosting options
- Describe Azure virtual networking
- Describe Azure virtual private networks
- Describe Azure ExpressRoute
- Describe Azure DNS
- Module assessment

LESSON 6 - DESCRIBE AZURE STORAGE SERVICES

- Describe Azure storage accounts
- Describe Azure storage redundancy
- Describe Azure storage services
- Identify Azure data migration options
- Identify Azure file movement options
- Module assessment

LESSON 7 - DESCRIBE AZURE IDENTITY, ACCESS, AND SECURITY

- Describe Azure directory services
- Describe Azure authentication methods
- Describe Azure external identities
- Describe Azure conditional access
- Describe Azure role-based access control
- Describe Zero Trust model
- Describe defense-in-depth
- Describe Microsoft Defender for Cloud
- Module assessment

LESSON 8 - DESCRIBE COST MANAGEMENT IN AZURE

- Describe factors that can affect costs in Azure
- Explore the pricing calculator
- Describe the Microsoft Cost Management tool
- Describe the purpose of tags
- Module assessment

LESSON 9 - DESCRIBE FEATURES AND TOOLS IN AZURE FOR GOVERNANCE AND COMPLIANCE

- Describe the purpose of Microsoft Purview
- Describe the purpose of Azure Policy
- Describe the purpose of resource locks
- Describe the purpose of the Service Trust portal

- Module assessment

LESSON 10 - DESCRIBE FEATURES AND TOOLS FOR MANAGING AND DEPLOYING AZURE RESOURCES

- Describe tools for interacting with Azure
- Describe the purpose of Azure Arc
- Describe Azure Resource Manager and Azure ARM templates
- Module assessment

LESSON 11 - DESCRIBE MONITORING TOOLS IN AZURE

- Describe the purpose of Azure Advisor
- Describe Azure Service Health
- Describe Azure Monitor
- Module assessment