

# Microsoft Azure Fundamental



## Online Course



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## Course Modules



### 1. Describe cloud computing

- Define cloud computing
- Describe the shared responsibility model
- Define cloud models, including public, private, and hybrid
- Identify appropriate use cases for each cloud model
- Describe the consumption-based model
- Compare cloud pricing models
- Describe serverless

### 2. Describe the benefits of using cloud services

- Benefits of high availability and scalability in the cloud
- 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

### 3. Describe cloud service types

- Describe infrastructure as a service (IaaS)
- Describe platform as a service (PaaS)
- Describe software as a service (SaaS)
- Identify appropriate use cases for each cloud service type

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## 4. Describe the core architectural components of Azure

- Describe Azure regions, region pairs, and sovereign regions
- Describe availability zones
- Describe Azure datacenters
- Describe Azure resources and resource groups
- Describe subscriptions
- Describe management groups
- Hierarchy of resource groups, subscriptions, & mgmnt grps



## 5. Describe Azure compute and networking services

- Compare compute types
- Describe virtual machine options
- Describe the resources required for virtual machines
- Describe application hosting options
- Describe virtual networking,
- Define public and private endpoints

## 6. Describe Azure storage services

- Compare Azure Storage services
- Describe storage tiers
- Describe redundancy options
- Describe storage account options and storage types
- Identify options for moving files
- Describe migration options

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## 7. Describe Azure identity, access, and security

- Describe directory services in Azure
- Describe authentication methods in Azure
- Describe external identities in Azure
- Describe Microsoft Entra Conditional Access
- Describe Azure role-based access control (RBAC)
- Describe the concept of Zero Trust
- Describe the purpose of the defense-in-depth model
- Describe the purpose of Microsoft Defender for Cloud



## 8. Describe cost management in Azure

- Describe factors that can affect costs in Azure
- Compare the price calculator & the Ttl Cost of TCO Calculator
- Describe cost management capabilities in Azure
- Describe the purpose of tags

## 9. Features & tools in Azure for governance and compliance

- Describe the purpose of Microsoft Purview in Azure
- Describe the purpose of Azure Policy
- Describe the purpose of resource locks

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## 10. Features and tools for manage & deploy Azure resources

- Describe the Azure portal
- Describe Azure Cloud Shell
- Describe the purpose of Azure Arc
- Describe infrastructure as code (IaC)
- Describe Azure Resource Manager (ARM) and ARM templates

## 11. Describe monitoring tools in Azure

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



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