

AZ-900: Microsoft Azure Fundamentals

From 5 May 2022 (with minor changes from 28 October 2022, 31 July 2023 and 23 January 2024)

Describe cloud concepts (25–30%)

Describe cloud computing

- 1 Define cloud computing
- 2 Describe the shared responsibility model
- 3 Define cloud models, including public, private, and hybrid
- 4 Identify appropriate use cases for each cloud model
- 5 Describe the consumption-based model
- 6 Compare cloud pricing models
- 6a Describe serverless

Describe the benefits of using cloud services

- 7 Describe the benefits of high availability and scalability in the cloud
- 8 Describe the benefits of reliability and predictability in the cloud
- 9 Describe the benefits of security and governance in the cloud
- 10 Describe the benefits of manageability in the cloud

Describe cloud service types

- 11 Describe infrastructure as a service (IaaS)
- 12 Describe platform as a service (PaaS)
- 13 Describe software as a service (SaaS)
- 14 identify appropriate use cases for each cloud service type (IaaS, PaaS, and SaaS)

Describe Azure architecture and services (35–40%)

Describe the core architectural components of Azure

- 15 Describe Azure regions, region pairs, and sovereign regions
- 16 Describe availability zones
- 17 Describe Azure datacenters
- 18 Describe Azure resources and resource groups
- 19 Describe subscriptions
- 20 Describe management groups
- 21 Describe the hierarchy of resource groups, subscriptions, and management groups

Describe Azure compute and networking services

- 22 Compare compute types, including containers, virtual machines, and functions
- 23 Describe virtual machine options, including Azure virtual machines, Azure Virtual Machine Scale Sets, availability sets, and Azure Virtual Desktop
- 24 Describe the resources required for virtual machines
- 25 Describe application hosting options, including web apps, containers, and virtual machines
- 26 Describe virtual networking, including the purpose of Azure virtual networks, Azure virtual subnets, peering, Azure DNS, Azure VPN Gateway, and ExpressRoute
- 27 Define public and private endpoints

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Describe Azure storage services

- 28 Compare Azure Storage services
- 29 Describe storage tiers
- 30 Describe redundancy options
- 31 Describe storage account options and storage types
- 32 Identify options for moving files, including AzCopy, Azure Storage Explorer, and Azure File Sync
- 33 Describe migration options, including Azure Migrate and Azure Data Box

Describe Azure identity, access, and security

- 34 Describe directory services in Azure, including Microsoft Entra ID and Microsoft Entra Domain Services
- 35 Describe authentication methods in Azure, including single sign-on (SSO), multi-factor authentication (MFA), and passwordless
- 36 Describe external identities in Azure, including business-to-business (B2B) and business-to-customer (B2C)
- 37 Describe Microsoft Entra Conditional Access
- 38 Describe Azure role-based access control (RBAC)
- 39 Describe the concept of Zero Trust
- 40 Describe the purpose of the defense-in-depth model
- 41 Describe the purpose of Microsoft Defender for Cloud

Describe Azure management and governance (30–35%)

Describe cost management in Azure

- 42 Describe factors that can affect costs in Azure
- 43 Compare the pricing calculator and the Total Cost of Ownership (TCO) calculator
- 44 Describe cost management capabilities in Azure
- 45 Describe the purpose of tags

Describe features and tools in Azure for governance and compliance

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

Describe features and tools for managing and deploying Azure resources

- 49 Describe the Azure portal
- 50 Describe Azure Cloud Shell, including Azure Command-Line Interface (CLI) and Azure PowerShell
- 51 Describe the purpose of Azure Arc
- 52 Describe infrastructure as code (IaC)
- 53 Describe Azure Resource Manager (ARM) and ARM templates

Describe monitoring tools in Azure

- 54 Describe the purpose of Azure Advisor
- 55 Describe Azure Service Health
- 56 Describe Azure Monitor, including Log Analytics, Azure Monitor alerts, and Application Insights