

CERT-PASS

Microsoft AZ-900 Azure Fundamentals

Free Practice Questions Preview

Here are 35 sample questions to help you get started. Unlock the full exam to access all 1100+ questions with detailed explanations.

Question 1 : Describe Azure management and governance

A team is checking a basic Azure concept. A PowerShell administrator wants to manage Azure resources with PowerShell cmdlets. Which tool should be used? The decision is for the training lab.

- A. Azure CLI only
- B. Azure PowerShell**
- C. Azure Data Box
- D. Azure DNS

Answer: B

Difficulty: Easy. Practice points: 1. Azure PowerShell provides cmdlets for scripting and administering Azure resources. Trap to avoid: Azure CLI is also a command-line tool, but it does not use PowerShell cmdlets.

Question 2 : Describe Azure architecture and services

During an Azure fundamentals review, Wide World Importers is designing a disaster-recovery strategy and wants to understand Azure's recommended regional relationship for replication and service recovery planning. Which architectural concept should the team review? The recommendation will be reviewed against Azure fundamentals best practices.

- A. Azure region pairs**
- B. Availability sets
- C. Resource groups
- D. Management groups

Answer: A

Difficulty: Easy. Practice points: 1. Azure region pairs are regional relationships used by Azure for certain replication and recovery considerations. Availability sets protect VMs from fault and update domains within a datacenter and do not describe a regional relationship.

Question 3 : Describe Azure architecture and services

An administrator is comparing introductory Azure options. Fabrikam wants storage data replicated to a secondary geographic region for disaster recovery. Which redundancy option should it choose?

- A. Azure Queue Storage
- B. Locally redundant storage (LRS)
- C. Geo-redundant storage (GRS)**
- D. Hot tier

Answer: C

Difficulty: Easy. Practice points: 1. GRS replicates data to a secondary region in addition to copies in the primary region. Trap to avoid: LRS maintains copies within one datacenter in a single region.

Question 4 : Describe cloud concepts

For a straightforward Azure requirement, Wingtip Toys wants confidence that a cloud service will behave consistently and that cost forecasting can be improved. Which cloud benefit best matches? The answer must distinguish the requested capability from a similarly named Azure feature.

- A. Physical ownership
- B. Manual provisioning
- C. Colocation
- D. Predictability**

Answer: D

Difficulty: Easy. Practice points: 1. Cloud predictability includes performance and cost predictability supported by service models and management tools. Trap to avoid: Physical ownership is not the cloud benefit being described.

Question 5 : Describe Azure management and governance

A team is checking a basic Azure concept. A PowerShell administrator wants to manage Azure resources with PowerShell cmdlets. Which tool should be used? The decision is for the document archive. The solution should use the service that directly matches the stated use case.

- A. Azure CLI only
- B. Azure Data Box
- C. Azure DNS
- D. Azure PowerShell**

Answer: D

Difficulty: Easy. Practice points: 1. Azure PowerShell provides cmdlets for scripting and administering Azure resources. Trap to avoid: Azure CLI is also a command-line tool, but it does not use PowerShell cmdlets.

Question 6 : Describe Azure management and governance

An administrator is comparing introductory Azure options. Humongous Insurance is investigating an application slowdown and needs telemetry from the application itself rather than only Azure platform incidents. Which capability should the team

configure? The team prefers a managed option where the requirement allows it.

- A. Azure Data Box
- B. Azure Policy
- C. Azure Service Health only

D. Application Insights

Answer: D

Difficulty: Easy. Practice points: 1. Application Insights provides application-level performance monitoring and diagnostics. Trap to avoid: Service Health is useful for Azure platform incidents but does not replace application telemetry.

Question 7 : Describe cloud concepts

During a certification practice review, Which option orders the cloud service types from greatest customer management responsibility to least customer management responsibility?

- A. PaaS, IaaS, SaaS
- B. SaaS, IaaS, PaaS
- C. IaaS, PaaS, SaaS**
- D. SaaS, PaaS, IaaS

Answer: C

Difficulty: Easy. Practice points: 1. Customers manage the most in IaaS, less in PaaS, and least in SaaS. Trap to avoid: SaaS first reverses the responsibility order because SaaS leaves the least infrastructure management to the customer.

Question 8 : Describe Azure architecture and services

During an architecture review, Margie's Travel wants layered security controls at the physical, identity, perimeter, network, compute, application, and data layers. Which model is this? The choice must address the main requirement rather than a secondary benefit.

- A. Consumption-based pricing
- B. Horizontal scaling
- C. Resource grouping

D. Defense in depth

Answer: D

Difficulty: Easy. Practice points: 1. Defense in depth applies multiple layers of security controls. Trap to avoid: Horizontal scaling improves capacity and is not a layered security model.

Question 9 : Describe Azure management and governance

An administrator is comparing introductory Azure options. A cloud fundamentals review identifies the following requirement. Contoso wants a browser-based graphical interface to create, configure, and monitor Azure resources. Which tool should it use?

- A. Azure Queue Storage
- B. The Azure portal**
- C. Azure VPN Gateway
- D. Azure Data Box

Answer: B

Difficulty: Easy. Practice points: 1. The Azure portal is a web-based graphical interface for managing Azure resources. Trap to avoid: Azure Data Box is a physical data transfer solution.

Question 10 : Describe cloud concepts

An administrator is comparing introductory Azure options. Relecloud runs an application on Azure virtual machines. Who is responsible for patching the guest operating system? The team is documenting why the strongest distractor does not satisfy the requirement.

- A. The customer**
- B. The hardware vendor only
- C. Microsoft only
- D. The internet service provider

Answer: A

Difficulty: Easy. Practice points: 1. For IaaS virtual machines, the customer manages the guest operating system, including patching. Trap to avoid: Microsoft patches the physical hosts, but not the customer's guest OS in an IaaS VM.

Question 11 : Describe Azure management and governance

During an Azure fundamentals review, Trey Research wants a browser-based graphical interface to create, configure, and monitor Azure resources. Which tool should it use?

- A. Azure Data Box
- B. Azure VPN Gateway
- C. Azure Queue Storage
- D. The Azure portal**

Answer: D

Difficulty: Easy. Practice points: 1. The Azure portal is a web-based graphical interface for managing Azure resources. Trap to avoid: Azure Data Box is a physical data transfer solution.

Question 12 : Describe Azure management and governance

During an Azure fundamentals review, A Linux administrator prefers commands such as ``az group create`` when automating Azure management. Which tool is being used?

- A. Azure Service Health
- B. Azure CLI**
- C. Azure PowerShell
- D. Azure Storage Explorer

Answer: B

Difficulty: Easy. Practice points: 1. Azure CLI uses 'az' commands for Azure management. Trap to avoid: Azure PowerShell uses PowerShell cmdlets rather than 'az' command syntax.

Question 13 : Describe cloud concepts

An administrator is comparing introductory Azure options. Margie's Travel wants to lift and shift a legacy server application with minimal code changes. Which service type is usually the most suitable starting point? The solution should use the service that directly matches the stated use case.

- A. Serverless computing only
- B. Infrastructure as a service (IaaS)**
- C. Platform as a service (PaaS) only
- D. Software as a service (SaaS)

Answer: B

Difficulty: Easy. Practice points: 1. IaaS commonly supports lift-and-shift migrations because it provides VMs with OS-level control. Trap to avoid: SaaS replaces the application with a provider-managed product and is not a lift-and-shift target.

Question 14 : Describe Azure management and governance

During an operations meeting, Adventure Works wants to enforce that newly deployed resources use approved Azure regions. Which Azure service is the best fit?

- A. Azure DNS
- B. Azure Policy**
- C. Azure Storage Explorer
- D. Azure Monitor

Answer: B

Difficulty: Easy. Practice points: 1. Azure Policy evaluates resources against rules and can enforce organizational standards. Trap to avoid: Azure Monitor observes telemetry but does not enforce allowed deployment regions.

Question 15 : Describe Azure management and governance

For a straightforward Azure requirement, Consolidated Messenger wants to reduce avoidable spending by reviewing underused resources and configuration recommendations. Which service should it review? The team wants to avoid selecting a governance tool for a technical hosting requirement.

- A. Azure Data Box
- B. Azure Advisor**
- C. Azure Files
- D. Azure DNS

Answer: B

Difficulty: Easy. Practice points: 1. Azure Advisor provides recommendations that can include cost optimization. Trap to avoid: Azure DNS hosts DNS records and does not recommend cost optimizations.

Question 16 : Describe Azure architecture and services

An administrator is comparing introductory Azure options. Margie's Travel needs name resolution for resources and applications hosted in Azure. Which service should be selected? The team is documenting why the strongest distractor does not satisfy the requirement.

- A. Azure Advisor
- B. Azure Policy
- C. Azure DNS**
- D. Azure Data Box

Answer: C

Difficulty: Easy. Practice points: 1. Azure DNS hosts DNS domains and provides name resolution. Trap to avoid: Azure Advisor recommends improvements but does not host DNS zones.

Question 17 : Describe cloud concepts

A team is checking a basic Azure concept. Lucerne Publishing wants maximum control over the guest operating system for a custom application. Which cloud service type should it choose? The decision is for the reporting service. The solution should use the service that directly matches the stated use case.

- A. Software as a service (SaaS)
- B. Infrastructure as a service (IaaS)**
- C. Platform as a service (PaaS)
- D. Business process outsourcing

Answer: B

Difficulty: Easy. Practice points: 1. IaaS provides virtualized infrastructure while the customer manages the guest OS and applications. Trap to avoid: PaaS reduces OS management and therefore does not provide the same level of guest OS control.

Question 18 : Describe Azure management and governance

For a straightforward Azure requirement, Relecloud wants to identify the department and environment associated with each Azure resource for reporting purposes. What should it apply?

- A. Availability zones
- B. Subnets only
- C. Tags**
- D. Region pairs

Answer: C

Difficulty: Easy. Practice points: 1. Tags add metadata such as department, owner, or environment to Azure resources. Trap to avoid: Subnets segment networks and do not provide general cost-allocation metadata.

Question 19 : Describe Azure architecture and services

For a new pilot, Margie's Travel wants to cache an Azure file share on Windows Servers in its offices and synchronize changes with Azure. Which Azure service is the best fit? The solution should use the service that directly matches the stated use case.

- A. Azure Functions
- B. Azure File Sync**
- C. Azure DNS
- D. Azure Queue Storage

Answer: B

Difficulty: Easy. Practice points: 1. Azure File Sync centralizes file shares in Azure Files while allowing Windows Server caching. Trap to avoid: Queue Storage handles messages and does not synchronize file shares.

Question 20 : Describe Azure management and governance

A project team is documenting a foundational decision. A cloud fundamentals review identifies the following requirement. Tailspin Toys receives an alert about planned maintenance for an Azure service used by its document archive. Where should the team review personalized maintenance information?

- A. Azure Service Health**
- B. Azure Files
- C. Azure Storage Explorer
- D. Azure Virtual Desktop

Answer: A

Difficulty: Easy. Practice points: 1. Azure Service Health includes planned maintenance notices relevant to Azure services and resources. Trap to avoid: Storage Explorer manages storage resources and does not provide personalized platform maintenance notices.

Question 21 : Describe Azure management and governance

During an Azure fundamentals review, During an operations meeting, Alpine Ski House wants an authenticated browser-based shell for managing Azure resources by using either Azure CLI or Azure PowerShell. Which tool should it use?

- A. Azure DNS
- B. Azure Cloud Shell**
- C. Azure Files
- D. Azure Data Box

Answer: B

Difficulty: Easy. Practice points: 1. Azure Cloud Shell provides browser-accessible Azure CLI and Azure PowerShell environments. Trap to avoid: Azure Files provides managed file shares and is not an interactive management shell.

Question 22 : Describe Azure architecture and services

For a straightforward Azure requirement, Graphic Design Institute needs an encrypted connection between its on-premises network and Azure over the public internet. Which Azure service is the best fit? The team wants to avoid selecting a governance tool for a technical hosting requirement.

- A. Azure DNS
- B. ExpressRoute only
- C. Azure VPN Gateway**
- D. Azure Queue Storage

Answer: C

Difficulty: Easy. Practice points: 1. Azure VPN Gateway supports encrypted connectivity over the public internet. Trap to avoid: ExpressRoute provides private connectivity that does not traverse the public internet.

Question 23 : Describe cloud concepts

During a security review, Contoso wants all infrastructure for a regulated workload to remain dedicated to the organization in its own datacenter. Which cloud model best matches the requirement? The answer must distinguish the requested capability from a similarly named Azure feature.

- A. Public cloud
- B. Hybrid cloud
- C. Private cloud**
- D. Serverless computing

Answer: C

Difficulty: Easy. Practice points: 1. A private cloud is dedicated to a single organization. Trap to avoid: A hybrid cloud includes a combination of private and public environments; the scenario requires dedicated infrastructure only.

Question 24 : Describe cloud concepts

A team is checking a basic Azure concept. A cloud fundamentals review identifies the following requirement. School of Fine Art uses Microsoft 365 as a SaaS solution. Which responsibility remains with School of Fine Art?

- A. Patching the SaaS application servers
- B. Maintaining physical network switches
- C. Replacing failed disks in the provider datacenter

D. Managing user identities and access

Answer: D

Difficulty: Easy. Practice points: 1. Customers remain responsible for their identities, access decisions, and data governance in SaaS. Trap to avoid: The provider patches and maintains the SaaS infrastructure and application platform.

Question 25 : Describe Azure management and governance

A project team is documenting a foundational decision. Coho Winery wants to analyze Azure spending, create budgets, and review cost trends. Which capability is the most appropriate? The choice must address the main requirement rather than a secondary benefit.

A. Microsoft Cost Management

- B. Azure Data Box
- C. Availability zones
- D. Azure DNS

Answer: A

Difficulty: Easy. Practice points: 1. Cost Management provides cost analysis, budgets, and related cost controls. Trap to avoid: Availability zones improve resiliency but do not analyze spending.

Question 26 : Describe Azure architecture and services

For a straightforward Azure requirement, Wide World Importers wants to organize Azure resources for a single application lifecycle so they can be managed together. What should the team recommend? Cost is not the primary decision factor unless the requirement explicitly mentions it.

- A. A region pair
- B. Azure DNS
- C. An availability zone

D. A resource group

Answer: D

Difficulty: Easy. Practice points: 1. A resource group is a logical container for related Azure resources. Trap to avoid: An availability zone is a fault-isolation location, not a management container.

Question 27 : Describe Azure architecture and services

A team is checking a basic Azure concept. Adventure Works is documenting a VM solution. Which resource primarily connects an Azure VM to a virtual network?

- A. A storage access tier
- B. A resource lock
- C. A management group
- D. A network interface (NIC)**

Answer: D

Difficulty: Easy. Practice points: 1. A VM uses a network interface to connect to a virtual network. Management groups organize subscriptions and do not provide VM network connectivity.

Question 28 : Describe Azure architecture and services

During an Azure fundamentals review, Relecloud wants to require an additional verification method beyond a password when users sign in. Which method should it use? The decision is for the virtual desktop environment.

- A. Single sign-on only
- B. ExpressRoute
- C. Azure Files
- D. Multifactor authentication (MFA)**

Answer: D

Difficulty: Easy. Practice points: 1. MFA requires two or more verification factors and strengthens sign-in security. Trap to avoid: SSO improves user experience but does not by itself add a second authentication factor.

Question 29 : Describe Azure architecture and services

For a proof of concept, Litware wants to distribute VMs across fault domains and update domains in a datacenter. Which feature should it use? The team wants to avoid selecting a governance tool for a technical hosting requirement.

- A. A private endpoint
- B. A management group
- C. A resource tag
- D. An availability set**

Answer: D

Difficulty: Easy. Practice points: 1. Availability sets help distribute VMs across fault and update domains. Trap to avoid: A management group organizes subscriptions; it does not spread VMs across fault domains.

Question 30 : Describe Azure management and governance

A team is checking a basic Azure concept. Humongous Insurance wants to identify the department and environment associated with each Azure resource for reporting purposes. What should it apply? The team wants to avoid selecting a governance tool for a technical hosting requirement.

- A. Tags
- B. Availability zones
- C. Subnets only
- D. Region pairs

Answer: A

Difficulty: Easy. Practice points: 1. Tags add metadata such as department, owner, or environment to Azure resources. Trap to avoid: Subnets segment networks and do not provide general cost-allocation metadata.

Question 31 : Describe Azure management and governance

A project team is documenting a foundational decision. A Linux administrator prefers commands such as ``az group create`` when automating Azure management. Which tool is being used? The decision is for the customer portal. The choice must address the main requirement rather than a secondary benefit.

- A. Azure CLI
- B. Azure PowerShell
- C. Azure Storage Explorer
- D. Azure Service Health

Answer: A

Difficulty: Easy. Practice points: 1. Azure CLI uses 'az' commands for Azure management. Trap to avoid: Azure PowerShell uses PowerShell cmdlets rather than 'az' command syntax.

Question 32 : Describe cloud concepts

For a straightforward Azure requirement, Proseware pays for Azure resources based on usage and can stop paying for compute resources after deleting them. Which cloud characteristic is illustrated? The team is documenting why the strongest distractor does not satisfy the requirement.

- A. Consumption-based pricing
- B. Perpetual licensing
- C. Capital expenditure
- D. Fixed datacenter capacity

Answer: A

Difficulty: Easy. Practice points: 1. A consumption-based model aligns charges with resource usage. Trap to avoid: Capital expenditure is an upfront investment in assets, unlike usage-based Azure billing.

Question 33 : Describe Azure architecture and services

For an upcoming migration, City Power & Light wants a graphical desktop tool to manage Azure Storage data from a workstation. Which tool should it use?

- A. Azure Policy
- B. Azure VPN Gateway
- C. Azure Data Box
- D. Azure Storage Explorer**

Answer: D

Difficulty: Easy. Practice points: 1. Azure Storage Explorer is a graphical tool for working with Azure Storage resources and data. Trap to avoid: Azure Data Box is a physical data transfer appliance, not a desktop management tool.

Question 34 : Describe Azure architecture and services

A team is checking a basic Azure concept. Fourth Coffee wants to divide a virtual network into smaller network segments. What should it create? The team prefers a managed option where the requirement allows it.

- A. Subnets**
- B. Region pairs
- C. Management groups
- D. Subscriptions

Answer: A

Difficulty: Easy. Practice points: 1. Subnets segment a virtual network address space. Trap to avoid: Management groups organize subscriptions and are not network segments.

Question 35 : Describe Azure architecture and services

A team is checking a basic Azure concept. During a security review, Humongous Insurance needs managed file shares that can be accessed by using the SMB protocol. Which Azure service most directly satisfies the requirement? The solution should use the service that directly matches the stated use case.

- A. Azure Table Storage
- B. Azure Files**
- C. Azure Queue Storage
- D. Azure Blob Storage only

Answer: B

Difficulty: Easy. Practice points: 1. Azure Files provides managed file shares accessible through protocols such as SMB. Trap to avoid: Blob Storage is object storage and is not the best match for an SMB file-share requirement.

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