

PRACTICE QUESTIONS

Microsoft

AZ-900

Microsoft Azure Fundamentals

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EDITION	Free Set 2
QUESTIONS	10
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EXAM	Microsoft AZ-900, Microsoft Azure Fundamentals

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10 practice questions for the Microsoft AZ-900 exam, Microsoft Azure Fundamentals, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. Which Azure construct places virtual machines across fault domains and update domains so that a single rack or maintenance event does not take down every instance?
- A Availability set
 - B Management group
 - C Resource lock
 - D Region pair

Answer: A

An availability set spreads virtual machines across fault domains, which share power and network, and update domains, which are patched at different times. A region pair is a disaster recovery pairing of regions and does not place VMs within a datacenter. Management groups and resource locks are governance constructs.

2. Under the shared responsibility model, a customer keeps responsibility for its data, user identities, and access settings even when it uses a software as a service (SaaS) application.
- A True
 - B False

Answer: A (True)

In SaaS, the provider runs the application, platform, and infrastructure, but the customer still controls its data, user identities, and who has access. Physical facilities and the hypervisor always stay with the provider. Assuming the SaaS vendor secures everything is a common and costly misunderstanding.

3. Which Azure service gives personalized recommendations across reliability, security, performance, operational excellence, and cost?
- A Azure Monitor
 - B Azure Advisor
 - C Azure Service Health
 - D Azure Policy

Answer: B

Azure Advisor analyzes your resource configuration and usage and suggests actions in five categories. Azure Monitor collects and analyzes metrics and logs, which is the tempting wrong answer, but it does not make recommendations. Service Health reports on Azure platform issues, and Azure Policy enforces rules.

4. Azure _____ pairs are two regions in the same geography that replicate data to each other, and Azure prioritizes their recovery if a broad outage occurs.

Answer: region

A region pair supports disaster recovery because Azure staggers platform updates and restores one region of the pair first during a broad outage. Pairs are in the same geography to respect data residency requirements. Availability zones are inside one region and do not cross regions.

5. Which two features help protect against unauthorized access to Azure resources? (Choose two.)
- A Azure Advisor
 - B Azure Cost Management
 - C Conditional Access policies
 - D Azure Monitor metrics
 - E Multifactor authentication in Microsoft Entra ID

Answer: C, E

Conditional Access evaluates signals such as location and device before granting access, and multifactor authentication requires a second factor at sign-in. Azure Advisor, Cost Management, and Monitor metrics do not control who can sign in. They help with optimization or observation rather than access control.

6. Which term describes shifting technology spending from upfront hardware purchases to ongoing charges for services used?
- A Economies of scale
 - B Fault tolerance
 - C Capital expenditure (CapEx)
 - D Operational expenditure (OpEx)

Answer: D

Operational expenditure covers recurring costs such as subscriptions and consumption charges, which is what cloud usage produces. Capital expenditure is the upfront investment in hardware that cloud computing is designed to avoid, so it is the tempting opposite. Economies of scale explain why providers can charge less, not how a customer pays.

7. Which feature attaches a name and value to a resource so you can group resources for reporting and cost analysis?
- A Management group
 - B Resource lock
 - C Azure Policy definition
 - D Tag

Answer: D

Tags are name and value pairs, such as costcenter or environment, that you can filter and group by in cost reports. Management groups organize subscriptions, not individual resources. Resource locks prevent changes, and policy definitions set rules rather than labels.

8. Azure Cost Management can show spending trends but cannot send budget alerts by email.
- A True
 - B False

Answer: B (False)

Cost Management budgets can send email alerts when actual or forecast spend crosses configured thresholds. The tool also shows trends, cost analysis, and recommendations. Notifications are one of the main ways teams catch overspending early.

9. Which cloud characteristic describes a workload continuing to operate when one of its components fails?
- A Fault tolerance
 - B Elasticity
 - C Consumption-based pricing
 - D Data residency

Answer: A

Fault tolerance keeps a service running through component failures, typically by having redundant parts that take over. Elasticity is about adjusting capacity with demand, which is the tempting but different answer. Consumption-based pricing and data residency are about cost and data location.

10. Which Azure networking service distributes HTTP and HTTPS traffic across backend pools using Layer 7 routing, and can include a web application firewall?
- A Azure Load Balancer
 - B Azure Application Gateway
 - C Azure DNS
 - D Azure VPN Gateway

Answer: B

Application Gateway is a Layer 7 load balancer that routes by URL path and host name and can include a web application firewall. Azure Load Balancer works at Layer 4 by IP address and port, which makes it the tempting wrong answer. Azure DNS resolves names, and VPN Gateway connects networks.