

Sample Questions with Answers

Cloud Computing - Azure

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Cloud Computing

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Question 1:

What is Microsoft Azure and what are its core services?

[ANSWER] Answer & Explanation:

Microsoft Azure is a cloud computing platform that provides a wide range of services including computing, analytics, storage, and networking. Core services include:

- Virtual Machines for compute
- Storage accounts for data storage
- Azure SQL Database for managed databases
- App Service for web applications
- Virtual Networks for networking
- Azure Active Directory for identity management

Azure enables organizations to build, deploy, and manage applications through Microsoft-managed data centers worldwide.

Question 2:

Explain the difference between Azure Resource Manager and Classic deployment models.

[ANSWER] Answer & Explanation:

Azure Resource Manager (ARM) is the modern deployment model that replaced the Classic model:

- ARM provides resource grouping, role-based access control, and tagging
- Supports JSON templates for infrastructure as code
- Enables parallel deployment and dependency management
- Classic model is legacy with limited management capabilities

ARM offers better security, management, and deployment features. Microsoft recommends migrating from Classic to ARM for all new deployments.

Question 3:

What are Azure Resource Groups and why are they important?

[ANSWER] Answer & Explanation:

Azure Resource Groups are logical containers that hold related Azure resources for an application or project:\n\n• Provide lifecycle management for grouped resources\n\n• Enable bulk operations like deployment, updates, and deletion\n\n• Support role-based access control at group level\n\n• Allow cost tracking and billing organization\n\n• Facilitate resource tagging and metadata management\n\n\nResource Groups simplify management by treating related resources as a single unit, making deployment and maintenance more efficient.

Question 4:

How would you design a highly available web application architecture in Azure?

[ANSWER] Answer & Explanation:

A highly available web application architecture in Azure should include:\n\n• Application Gateway with Web Application Firewall for load balancing\n\n• Virtual Machine Scale Sets across multiple Availability Zones\n\n• Azure SQL Database with geo-replication for data redundancy\n\n• Azure Storage with geo-redundant storage (GRS)\n\n• Azure CDN for global content delivery\n\n• Application Insights for monitoring and diagnostics\n\n\nImplement auto-scaling policies, health probes, and disaster recovery procedures. Use Traffic Manager for multi-region failover and Azure Backup for data protection.

Question 5:

Explain Azure networking concepts: VNet, Subnets, and Network Security Groups.

[ANSWER] Answer & Explanation:

Azure networking components work together to provide secure connectivity:\n\n• Virtual Network (VNet): Isolated network environment in Azure cloud\n\n• Subnets: Logical divisions within VNet for resource organization\n\n• Network Security Groups (NSGs): Virtual firewalls with inbound/outbound rules\n\n• Application Security Groups: Logical grouping for security policies\n\n\nVNets enable secure communication between Azure resources. Subnets segment networks for better security and management. NSGs control traffic flow with allow/deny rules based on source, destination, port, and protocol.

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