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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:\n\n• Virtual Machines for compute\n• Storage accounts for data storage\n• Azure SQL Database for managed databases\n• App Service for web applications\n• Virtual Networks for networking\n• Azure Active Directory for identity management\n\nAzure 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:\n\n• ARM provides resource grouping, role-based access control, and tagging\n• Supports JSON templates for infrastructure as code\n• Enables parallel deployment and dependency management\n• Classic model is legacy with limited management capabilities\n\nARM 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• Enable bulk operations like deployment, updates, and deletion\n• Support role-based access control at group level\n• Allow cost tracking and billing organization\n• Facilitate resource tagging and metadata management\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• Virtual Machine Scale Sets across multiple Availability Zones\n• Azure SQL Database with geo-replication for data redundancy\n• Azure Storage with geo-redundant storage (GRS)\n• Azure CDN for global content delivery\n• Application Insights for monitoring and diagnostics\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• Subnets: Logical divisions within VNet for resource organization\n• Network Security Groups (NSGs): Virtual firewalls with inbound/outbound rules\n• Application Security Groups: Logical grouping for security policies\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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[WEB] Website: **www.solvemyques.com**

[EMAIL] Email: support@solvemyques.com