

AZ-305T00 Designing azure infrastructure solution

1.Introduction to Azure Infrastructure Design

- 1.1 Understanding Azure as a cloud platform.
- 1.2 Azure global infrastructure and regions.
- 1.3 Azure Resource Manager (ARM) and its role in infrastructure design.
- 1.4 Best practices for designing secure and scalable Azure solutions.

2.Azure Networking Design

- 2.1 Designing Azure virtual networks (VNets).
- 2.2 Subnetting and IP addressing in Azure VNets.
- 2.3 Azure Virtual Network Peering and VPN Gateway.
- 2.4 Network security groups (NSGs) and application security groups (ASGs).
- 2.5 Designing for high availability and disaster recovery in Azure networking.

3. Azure Identity and Access Management (IAM) Design

- 3.1 Azure Active Directory (Azure AD) fundamentals.
- 3.2 Designing Azure AD for identity and access control.
- 3.3 Role-based access control (RBAC) and custom roles.
- 3.4 Implementing Azure AD Connect for hybrid identity.

4. Azure Storage and Data Services Design

- 4.1 Azure Storage services overview (blobs, tables, queues, files).
- 4.2 Designing for data redundancy and availability.
- 4.3 Azure Data Lake Storage and Azure SQL Database design.
- 4.4 Data security and compliance considerations.

5 .Azure Virtual Machines and Compute Design

- 5.1 Designing Azure Virtual Machines (VMs) for various workloads.
- 5.2 Availability sets and availability zones.
- 5.3 Azure Virtual Machine Scale Sets (VMSS).

6. Hybrid Cloud Solutions

- 6.1 Azure Hybrid Benefit and licensing considerations.
- 6.2 Designing hybrid connectivity solutions (Azure ExpressRoute, VPN).
- 6.3 Azure Arc and extending Azure management to on premises environments.

7. Monitoring, Management, and Governance

- 7.1 Azure Monitor and Azure Security Center.
- 7.2 Azure Policy and Azure Blueprints.
- 7.3 Cost management and optimization.
- 7.4 Designing for compliance and auditing.

8. Review and Best Practices

- 8.1 Review of key design principles and best practices.
- 8.2 Case studies and real-world scenarios.
- 8.3 Examining common design patterns in Azure infrastructure solutions.

THANK YOU



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