

AZ-303 Microsoft Azure Architect Technologies Training Topics

Section 1: Implement and Monitor an Azure Infrastructure (50-55%)

- Implement cloud infrastructure monitoring
- Monitor security
- Monitor performance
- Configure diagnostic settings on resources
- Create a performance baseline for resources
- Monitor for unused resources
- Monitor performance capacity
- Visualize diagnostics data using Azure Monitor
- Monitor health and availability
- Monitor networking
- Monitor service health
- Monitor cost
- Monitor spend
- Report on spend
- Configure advanced logging
- Implement and configure Azure Monitor insights, including App Insights, Networks, Containers
- Configure a Log Analytics workspace
- Configure logging for workloads
- Initiate automated responses by using Action Groups
- Configure and manage advanced
- Collect alerts and metrics across multiple subscriptions
- View Alerts in Azure Monitor logs
- NOTE: create Log Analytics query

Section 2: Implement storage accounts

- Select storage account options based on a use case
- Configure Azure Files and blob storage
- Configure network access to the storage account
- Implement Shared Access Signatures and access policies
- Implement Azure AD authentication for storage
- Manage access keys
- Implement Azure storage replication
- Implement Azure storage account failover

Section 3: Implement VMs for Windows and Linux

- Configure High Availability

- Configure storage for VMs
- Select virtual machine size
- Implement Azure Dedicated Hosts
- Deploy and configure scale sets
- Configure Azure Disk Encryption

Section 4: Automate deployment and configuration of resources

- Save a deployment as an Azure Resource Manager template
- Modify Azure Resource Manager template
- Evaluate location of new resources
- Configure a virtual disk template
- Deploy from a template
- Manage a template library
- Create and execute an automation runbook

Section 5: Implement virtual networking

- Implement VNet to VNet connections
- Implement VNet peering

Section 6: Implement Azure Active Directory

- Add custom domains
- Configure Azure AD Identity Protection
- Implement self-service password reset
- Implement Conditional Access including MFA
- Configure user accounts for MFA
- Configure fraud alerts
- Configure bypass options
- Configure Trusted IPs
- Configure verification methods
- Implement and manage guest accounts
- Manage multiple directories

Section 7: Implement and manage hybrid identities

- Install and configure Azure AD Connect
- Identity synchronization options
- Configure and manage password sync and password writeback
- Configure single sign-on
- Use Azure AD Connect Health

Section 8: Implement Management and Security Solutions (25-30%)

- Manage workloads in Azure

- Migrate workloads using Azure Migrate
- Assess infrastructure
- Select a migration method
- Prepare the on-premises for migration
- recommend target infrastructure
- Implement Azure Backup for VMs
- Implement disaster recovery
- implement Azure Update Management

Section 9: Implement load balancing and network security

- Implement Azure Load Balancer
- Implement an application gateway
- Implement a Web Application Firewall
- Implement Azure Firewall
- Implement Azure Traffic Manager
- Implement Network Security Groups and Application Security Groups
- Implement Bastion

Section 10: Implement and manage Azure governance solutions

- Create and manage hierarchical structure that contains management groups, subscriptions and resource groups
- Assign RBAC roles
- Create a custom RBAC role
- Configure access to Azure resources by assigning roles
- Configure management access to Azure
- Interpret effective permissions
- Set up and perform an access review
- Implement and configure an Azure Policy
- Implement and configure an Azure Blueprint

Section 11: Manage security for applications

- Implement and configure KeyVault
- Implement and configure Azure AD Managed Identities
- Register and manage applications in Azure AD

Section 12: Implement Solutions for Apps (10-15%)

- Implement an application infrastructure
- Create and configure Azure App Service
- Create an App Service Web App for Containers
- Create and configure an App Service plan
- Configure an App Service
- Configure networking for an App Service

- Create and manage deployment slots
- Implement Logic Apps
- Implement Azure Functions

Section 13: Implement container-based applications

- Create a container image
- Configure Azure Kubernetes Service
- Publish and automate image deployment to the Azure Container Registry
- Publish a solution on an Azure Container Instance
- NOT: Service Fabric

Section 14: Implement and Manage Data Platforms (10-15%)

- Implement NoSQL databases
- Configure storage account tables
- Select appropriate CosmosDB APIs
- Set up replicas in CosmosDB

Section 15: Implement Azure SQL databases

- Configure Azure SQL database settings
- Implement Azure SQL Database managed instances
- Configure HA for an Azure SQL database
- Publish an Azure SQL database



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