

Azure Paper Code AZ - 103

1. Module 1

1.1. Manage Azure subscriptions and resources

Managing Azure Subscriptions

- 1.1.1. Assign administrator permissions
- 1.1.2. Configure cost center quotas and tagging
- 1.1.3. Configure Azure subscription policies at Azure subscription level

1.2. Analyse resource utilization and consumption

- 1.2.1. Configure diagnostic settings on resources
- 1.2.2. Create baseline for resources
- 1.2.3. Create and rest alerts
- 1.2.4. Analyze alerts across subscription
- 1.2.5. Analyze metrics across subscription
- 1.2.6. Create action groups
- 1.2.7. Monitor for unused resources
- 1.2.8. Monitor spend
- 1.2.9. Report on spend
- 1.2.10. Utilize Log Search query functions
- 1.2.11. View alerts in Log Analytic

1.3. Manage resource groups

- 1.3.1. Use Azure policies for resource groups
- 1.3.2. Configure resource locks
- 1.3.3. Configure resource policies
- 1.3.4. Identify auditing requirements
- 1.3.5. Implement and set tagging on resource groups
- 1.3.6. Move resources across resource groups
- 1.3.7. Remove resource groups

1.4. Managed role based access control (RBAC)

- 1.4.1. Create a custom role
- 1.4.2. Configure access to Azure resources by assigning roles
- 1.4.3. Configure management access to Azure, troubleshoot RBAC, implement RBAC policies, assign RBAC Roles

2. Module 2

2.1. Implement and manage storage Create and configure storage accounts

- 2.1.1. Configure network access to the storage account

2.1.2. Create and configure storage account

2.1.3. Generate shared access signature

2.1.4. Install and use Azure Storage Explorer

2.1.5. Manage access keys

2.1.6. Monitor activity log by using Log Analytics

2.1.7. Implement Azure storage replication Import and export data to Azure

2.1.8. Create export from Azure job

2.1.9. Create import into Azure job

2.1.10. Use Azure Data Box

2.1.11. Configure and use Azure blob storage

2.1.12. Configure Azure content delivery network (CDN) endpoints Configure Azure files

2.1.13. Create Azure file share

2.1.14. Create Azure File Sync service

2.1.15. Create Azure sync group

2.1.16. Troubleshoot Azure File Sync

2.2. Implement Azure backup

2.2.1. Configure and review backup reports

2.2.2. Perform backup operation

2.2.3. Create Recovery Services Vault

2.2.4. Create and configure a backup policy

2.2.5. Perform a restore operation

3. Module 3 (Deploy and manage virtual machines (VMs))

3.1. Create and configure a VM for Windows and Linux

3.1.1. Configure high availability

3.1.2. Configure monitoring, networking, storage, and virtual machine size

3.1.3. Deploy and configure scale sets Automate deployment of VMs

3.1.4. Modify Azure Resource Manager (ARM) template

3.1.5. Configure location of new VMs

3.1.6. Configure VHD template

3.1.7. Deploy from template

- 3.1.8. Save a deployment as an ARM template
- 3.1.9. Deploy Windows and Linux VMs
Manage Azure VM
- 3.1.10. Add data discs
- 3.1.11. Add network interfaces
- 3.1.12. Manage VM sizes; move VMs from one resource group to another
- 3.1.13. Redeploy VMs

3.2. Manage VM backups

- 3.2.1. Configure VM backup
- 3.2.2. Define backup policies
- 3.2.3. Implement backup policies
- 3.2.4. Perform VM restore
- 3.2.5. Azure Site Recovery

4. Module 4

4.1. Configure and manage virtual networks

- 4.1.1. Create connectivity between virtual networks
- 4.1.2. Create and configure VNET peering
- 4.1.3. Create and configure VNET to VNET
- 4.1.4. Verify virtual network connectivity
- 4.1.5. Create virtual network gateway
Implement and manage virtual networking
- 4.1.6. Configure private and public IP addresses, network routes, network interface, subnets, and virtual network Configure name resolution
- 4.1.7. Configure Azure DNS
- 4.1.8. Configure custom DNS settings
- 4.1.9. Configure private and public DNS zones Create and configure a Network Security Group (NSG)
- 4.1.10. Create security rules
- 4.1.11. Associate NSG to a subnet or network interface
- 4.1.12. Identify required ports
- 4.1.13. Evaluate effective security rules

4.2. Implement Azure load balancer

- 4.2.1. Configure internal load balancer, configure load balancing rules, configure public load balancer, troubleshoot Monitor and troubleshoot virtual networking
- 4.2.2. Monitor on-premises connectivity, use Network resource monitoring,

use Network Watcher, troubleshoot external networking, troubleshoot virtual network connectivity

5. Module 5 (Manage identities)

5.1. Manage Azure Active Directory (AD)

- 5.1.1. Add custom domains
- 5.1.2. Azure AD Join
- 5.1.3. Configure self-service password reset
- 5.1.4. Manage multiple directories

5.2. Manage Azure AD objects (users, groups, and devices)

- 5.2.1. Create users and groups
- 5.2.2. Manage user and group properties
- 5.2.3. Manage device settings
- 5.2.4. Perform bulk user updates
- 5.2.5. Manage guest accounts

5.3. Implement multi-factor authentication (MFA)

- 5.3.1. Configure user accounts for MFA, enable MFA by using bulk update, configure fraud alerts, configure bypass options, configure Trusted IPs, configure verification methods