

Academy of Information Technology (AIT)

AZURE CLOUD ADMINISTRATOR (AZ-104)

Duration: 3 months

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1. Manage Azure Identities and Governance (15–20%)

- Create Azure Active Directory (Azure AD) objects users and groups
- Manage Azure AD identities (including hybrid identities)
- Implement and manage role-based access control (RBAC)
- Create a custom role
- Provide access to Azure resources by assigning roles at different scopes
- Manage subscriptions and governance
- Configure Azure Policies
- Configure resource locks
- Manage Azure AD Identity Protection and self-service password reset
- Configure administrative units and guest accounts
- Perform bulk updates and manage licenses in Azure AD

2. Implement and Manage Storage (10–15%)

- Secure storage
- Create and configure storage accounts in AWS
- Configure network access to storage accounts in Azure and configure access (shared access signatures,
- Manage a access keys
- In Azure AD configure authentication for Storage accounts
- What is Azure Blob Storage
- Configure Azure Blob Storage,
- Create a Azure Files share
- What is Data Lake Storage
- Manage data in Azure storage (import/export, lifecycle management, replication)
- Configure storage account monitoring and diagnostics
- Implement data protection and recovery (soft delete, point-in-time restore)
- Manage storage account networking and firewalls

3. Deploy and Manage Azure Compute Resources (25–30%)

- Deploy and manage virtual machines (VMs) and VM scale sets
- Automate deployments of VM using ARM templates (Azure Resource Management Templates)
- Configure your Virtual Machines (VMs)
- Configure VM sizes

- Add data disks to VM in Azure
- Configure various properties related to networking
- Azure CLI/PowerShell
- Configure VM networking, storage, and extensions
- Manage VM backups, snapshots, and restore
- Create and configure containers and Azure App Service web apps
- Implement Azure Automation for routine tasks

4. Configure and Manage Virtual Networking (30–35%)

- Create and Configure virtual networks, subnets, and peering
- Manage Private and Public IP addresses, DNS, and routing
- Implement Network Security Groups (NSGs)
- Azure Firewall
- Azure Bastion
- Configure VPN gateways, ExpressRoute, and site-to-site connections
- Troubleshoot network connectivity and implement load balancing

5. Monitor and Back Up Azure Resources (10–15%)

- Monitor resources using Azure Monitor,
- Configure Azure Monitor Logs
- Setup alerts and its actions
- Implement Backup and Recovery Solutions
- Perform backup and restore with Azure Backup
- Azure Site Recovery
- Configure and analyze diagnostics and metrics
- Set up Azure alerts and notifications for resource health and performance

Final Exam