



# AZ-104 Microsoft Azure Administrator Training Curriculum

## STRUCTURE



## **AZ-104 Microsoft Azure Administrator Training Curriculum**

*“Become a Microsoft Certified Azure Administrator by joining our comprehensive AZ-104 Microsoft Azure Administrator Training Program”*

### **Course Objectives:**

- Prepare yourself for the certification exam and clear your certification exam in the first attempt
- Add an attractive credential in your resume that is really appreciated by Companies.
- Improve your overall cloud management skills and explore more job prospects with better salary packages.
- Boost your social media profiles especially LinkedIn by adding this certification and become one of the top persons to be chosen by industries.

### **AZ 104 Certification Training Description:**

The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment. The Azure Administrator will provision, size, monitor, and adjust resources as appropriate. Candidates should have a minimum of six months of hands-on experience administering Azure.

Candidates should have a strong understanding of core Azure services, Azure workloads, security, and governance. Candidates for this exam should have experience in using PowerShell, the Command Line Interface, Azure Portal, and ARM templates.

### **Necessary Details about Certification You must Know**

- Certification Name – AZ-104: Microsoft Azure Administrator
- Exam Duration: 180 minutes
- Number of Questions: 40-60
- Passing score: 700 (Out of 1000)
- Exam Cost: USD 165.00
- Validity: 2 years

### **Certification Exam Structure:**

- Manage Azure identities and governance (15-20%)
- Implement and Manage Storage (10-15%)
- Deploy and Manage Azure Compute Resources (25-30%)
- Configure and Manage Virtual Networking (30-35%)
- Monitor and Backup Azure Resources (10-15%)

## Course Content:

### Module 1: Manage Azure identities and governance (15-20%)

- Manage Azure AD objects
  - create users and groups
  - manage user and group properties
  - manage device settings
  - perform bulk user updates
  - manage guest accounts
  - configure Azure AD Join
  - configure self-service password reset
  - NOTE: Azure AD Connect; PIM
- Manage role-based access control (RBAC)
  - create a custom role
  - provide access to Azure resources by assigning roles
  - subscriptions
  - resource groups
  - resources (VM, disk, etc.)
  - interpret access assignments
  - manage multiple directories
- Manage subscriptions and governance
  - configure Azure policies
  - configure resource locks
  - apply tags
  - create and manage resource groups
  - move resources
  - remove RGs
  - manage subscriptions
  - configure Cost Management
  - configure management groups

### Module 2: Implement and Manage Storage (10-15%)

- Manage storage accounts
  - configure network access to storage accounts
  - create and configure storage accounts
  - generate shared access signature
  - manage access keys
  - implement Azure storage replication
  - configure Azure AD Authentication for a storage account
- Manage data in Azure Storage
  - export from Azure job
  - import into Azure job
  - install and use Azure Storage Explorer
  - copy data by using AZ Copy
- Configure Azure files and Azure blob storage
  - create an Azure file share

- create and configure Azure File Sync service
- configure Azure blob storage
- configure storage tiers for Azure blobs

### **Module 3: Deploy and Manage Azure Compute Resources (25-30%)**

- Configure VMs for high availability and scalability
  - configure high availability
  - deploy and configure scale sets
- Automate deployment and configuration of VMs
  - modify Azure Resource Manager (ARM) template
  - configure VHD template
  - deploy from template
  - save a deployment as an ARM template
  - automate configuration management by using custom script extensions
- Create and configure VMs
  - configure Azure Disk Encryption
  - move VMs from one resource group to another
  - manage VM sizes
  - add data discs
  - configure networking
  - redeploy VMs
- Create and configure containers
  - create and configure Azure Kubernetes Service (AKS)
  - create and configure Azure Container Instances (ACI)
  - NOT: selecting a container solution architecture or product; container registry settings
- Create and configure Web Apps
  - create and configure App Service
  - create and configure App Service Plans
  - NOT: Azure Functions; Logic Apps; Event Grid

### **Module 4: Configure and Manage Virtual Networking (30-35%)**

- Implement and manage virtual networking
  - create and configure VNET peering
  - configure private and public IP addresses, network routes, network interface, subnets, and virtual network
- Configure name resolution
  - configure Azure DNS
  - configure custom DNS settings
  - configure a private or public DNS zone
- Secure access to virtual networks
  - create security rules
  - associate an NSG to a subnet or network interface
  - evaluate effective security rules
  - deploy and configure Azure Firewall
  - deploy and configure Azure Bastion Service

- NOT: Implement Application Security Groups; DDoS
- Configure load balancing
  - configure Application Gateway
  - configure an internal load balancer
  - configure load balancing rules
  - configure a public load balancer
  - troubleshoot load balancing
  - NOT: Traffic Manager and Front Door and Private Link
- Monitor and troubleshoot virtual networking
  - monitor on-premises connectivity
  - use Network Performance Monitor
  - use Network Watcher
  - troubleshoot external networking
  - troubleshoot virtual network connectivity
- Integrate an on-premises network with an Azure virtual network
  - create and configure Azure VPN Gateway
  - create and configure VPNs
  - configure ExpressRoute
  - configure Azure Virtual WAN

## **Module 5: Monitor and Back up Azure Resources (10-15%)**

- Monitor resources by using Azure Monitor
  - configure and interpret metrics
  - analyze metrics across subscriptions
  - configure Log Analytics
  - implement a Log Analytics workspace
  - configure diagnostic settings
  - query and analyze logs
  - create a query
  - save a query to the dashboard
  - interpret graphs
  - set up alerts and actions
  - create and test alerts
  - create action groups
  - view alerts in Azure Monitor
  - analyze alerts across subscriptions
  - configure Application Insights
  - NOT: Network monitoring
- Implement backup and recovery
  - configure and review backup reports
  - perform backup and restore operations by using Azure Backup Service
  - create a Recovery Services Vault
  - use soft deletes to recover Azure VMs
  - create and configure backup policy
  - perform site-to-site recovery by using Azure Site Recovery
  - NOT: SQL or HANA

## Module 6: Placement Guide

- Tips to clear an Interview
- Common Interview questions and answers
- AZ 104 Interview Questions and Answers
- Resume Building Guide
- Attempt for AZ 104 Global Certification Exam
- Earn Credentials and Start applying for Jobs