



MICROSOFT AZURE
ADMINISTRATOR TRAINING

UPGRADE YOUR KNOWLEDGE

Microsoft Azure Administrator Training

Course Overview

Microsoft Certified: Azure Administrator Associate - AZ-103 certification, needs you to pass one exam AZ-103: Microsoft Azure Administrator. This new exam combines the skills covered in AZ-100 and AZ-101, with the majority of the new exam coming from AZ-100. AZ-103 course is recommended for the Azure Administrators who manage cloud services that span storage, security, networking, and compute cloud capabilities. Candidates have a deep understanding of each service across the full IT lifecycle, and take requests for infrastructure services, applications, and environments.

Duration & Module Coverage

Duration: 16 Days (40hrs)

Session Options	Module Coverage
Session Weekdays[4] : 2.5 hours per day	Day 1 - Module 1 Day 2 - Module 1 [contd.] Day 3 - Module 1 [contd.] Day 4 - Module 2
Session Weekends: 2.5 hours per day	Day 5 - Module 2 [contd.] Day 6 - Module 2 [contd.] Day 7 - Module 3 Day 8 - Module 3 [contd.] Day 9 - Module 3 [contd.] Day 10 - Module 4 Day 11 - Module 4 [contd.] Day 12 - Module 4 [contd.] Day 13 - Module 4 [contd.] Day 14 - Module 5 Day 15 - Module 5 [contd.] Day 16 - Module 5 [contd.]

Learning Goals

By the end of this course participants will be able to:

1. Manage Azure identities and Governance.
2. Implement and Manage Azure storage.
3. Deploy and manage Azure compute resources.
4. Configure and manage virtual networking.
5. Monitor and backup Azure resources.

Pre-Requisites

Candidates for this exam should have proficiency in using PowerShell, the Command Line Interface, Azure Portal, ARM templates, operating systems, virtualization, cloud infrastructure, storage structures, and networking.



Teaching Methodology

This is a very hands-on course where participants carry out practical exercises according to the lab guide provided. The concepts are taught through implementation of real-world use-cases. Our exercises have been carefully designed to replicate scenarios participants will face in real life work conditions.

Who Should Take This Course?

This course is designed for Azure Administrators who manage cloud services that span storage, security, networking, and compute cloud capabilities.

Course Content

1. Manage Azure Identities and Governance

- 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.
- Manage role-based access control (RBAC).
- Provide access to Azure resources by assigning roles.
- Manage multiple directories.
- Manage subscriptions and governance.
- Configure Azure policies, resource locks and apply tags.
- Create and manage resource groups.
- Configure Cost Management and management groups.

2. Implement and Manage Storage

- Configure network access to storage.
- Create and configure storage accounts.
- Generate shared access signature.
- Manage access keys.
- Implement Azure storage replication.
- Configure Azure AD Authentication.
- Export and Import into Azure job.
- Install and use Azure Storage Explorer.
- Copy data by using AZCopy.
- Create an Azure file share.
- Create and configure Azure File Sync.
- Configure Azure blob storage.
- Configure storage tiers for Azure blobs.

3. Deploy and Manage Azure Compute Resources

- Configure VMs for high availability and scalability.
- Deploy and configure scale sets.
- Automate deployment and configuration of VMs.
- Modify Azure Resource Manager (ARM).
- Configure and 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.
- Manage VM sizes and add data discs.
- Configure networking.
- Redeploy VMs.
- Create and configure containers.
- Create and configure Azure Kubernetes.
- Create and configure Azure Container Instances.
- Create and configure Web Apps and App Service.
- Create and configure App Service Plans.

4. Configure and Manage Virtual Networking

- Implement and manage virtual networking.
- Create and configure VNET peering.
- Configure private and public IP addresses, network routes, subnets, and virtual network.
- Configure name resolution and 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 and evaluate effective security rules.
- Deploy and configure Azure Firewall.
- Deploy and configure Azure Bastion.
- Configure load balancing and Application Gateway.
- Configure an internal load balancer.
- Configure load balancing rules.
- Configure a public load balancer.
- Monitor and troubleshoot virtual networking and on-premises connectivity.
- Use Network resource monitoring and Network Watcher.
- Integrate an on-premises network with an Azure virtual network.
- Create and configure Azure VPN.
- Configure ExpressRoute, Azure Virtual WAN and direct internet access.

5. Monitor and Backup Azure Resources

- Monitor resources by using Azure Monitor.
- Configure and interpret and analyze metrics across subscriptions.
- Configure and implement Log Analytics workspace.
- Configure diagnostic settings- query and analyze logs.
- Set up alerts and actions.
- Implement backup and recovery.
- Configure and review backup reports.
- Perform backup and restore operations.
- Create a Recovery Services Vault.
- Create and configure backup policy.
- Perform site-to-site recovery by using Azure Site Recovery.



Practical Learning Exercises

A lab guide will be provided to each student with requirement scenarios. Along with lab guide cloud access will be provided to individual labs for self practice.

There would be scenarios for implementing, verifying and troubleshooting all modules covered in the course.