Microsoft Azure Administrator (AZ-104) Course Outline

Module 1: Identity –

In this module, you will learn how to:

- Secure and manage identities with Azure Active Directory
- Create and manage users and groups

Lab : Manage Azure Active Directory Identities

Module 2: Governance and Compliance –

In this module, you will learn how to:

- Implement and manage Azure subscriptions and accounts
- Implement the Azure Policy and create custom policies
- Use Role-based access control (RBAC) to assign permissions

Lab : Manage Subscriptions and RBAC
Lab : Manage Governance via Azure Policy

Module 3: Azure Administration –

In this module, you will learn about the main tools an Azure Administrator uses to manage their infrastructure, including:

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates

Lab : Manage Azure resources by Using the Azure Portal
Lab : Manage Azure resources by Using ARM Templates
Lab : Manage Azure resources by Using Azure PowerShell
Lab : Manage Azure resources by Using Azure CLI

Module 4: Virtual Networking –

In this module, you will learn how to implement and configure:

- Virtual networks and subnets
- Public and private IP addressing
- Network security groups
- Azure Firewall
- Private and public DNS zones

Lab : Implement Virtual Networking

Module 5: Intersite Connectivity –

In this module, you will learn about intersite connectivity features, such as:

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Lab : Implement Intersite Connectivity

Module 6: Network Traffic Management –

In this module, you will learn how to implement and manage different network traffic strategies and tools, including:

- Network routing and endpoints
- Azure Load Balancer
- Azure Application Gateway
- Traffic Manager

Lab : Implement Traffic Management

Module 7: Azure Storage –

In this module, you will learn how to configure and implement the basic storage features in Azure, including:

- Storage accounts
- Blob storage
- Storage security
- Azure files and file sync
- Storage Explorer

Lab : Manage Azure storage

Module 8: Azure Virtual Machines

In this module, you will learn how to:

- Plan and create virtual machines in Azure
- Configure virtual machine availability, including scale sets
- Use virtual machine extensions

Lab : Manage virtual machines

Module 9: Serverless Computing

In this module, you will learn about administering serverless computing features of Azure, including:

- Azure App Service
- Azure Container Services
- Azure Kubernetes Service

Lab : Implement Web Apps
Lab : Implement Azure Container Instances
Lab : Implement Azure Kubernetes Service

Module 10: Data Protection

In this module, you will learn about:

- File and folder backups and restoration
- Virtual machine backups and restoration

Lab: Implement Data Protection

Module 11: Data Protection

In this module, you will learn how to monitor your Azure infrastructure with:

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watch

Lab: Implement Monitoring