

AZ-104 (Microsoft Azure Administrator) – Full Course Syllabus

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

- Manage Azure Active Directory (Azure AD) objects
- Users, groups, administrative units, devices
- Manage guest accounts using Azure AD B2B
- Manage access control
- Role-Based Access Control (RBAC)
- Custom roles
- Azure AD Privileged Identity Management (PIM)
- Manage subscriptions and governance
- Configure Azure Policy
- Configure resource locks
- Implement and configure resource tagging
- Create and manage resource groups

2. Implement and Manage Storage (15-20%)

- Configure access to storage
- Shared access signatures (SAS)
- Azure AD-based access for storage
- Manage storage account keys
- Manage data in Azure Storage
- Import and export data
- Use AzCopy, Azure Storage Explorer
- Configure Azure Files and Azure Blob Storage
- Configure storage tiers
- Configure lifecycle management
- Configure blob object replication
- Configure Azure Files and Azure File Sync

3. Deploy and Manage Azure Compute Resources (20-25%)

- Configure VMs for high availability and scalability
- Availability sets
- Availability zones
- Scale sets
- Automate deployment and configuration of VMs
- ARM templates
- Azure Bicep
- Azure VM extensions
- Create and configure containers
- Azure Container Instances (ACI)
- Azure Kubernetes Service (AKS) basics
- Create and configure App Service resources
- App Service Plans
- Web Apps

- Custom domains, SSL bindings
- Backup and restore web apps

4. Configure and Manage Virtual Networking (20-25%)

- Implement and manage virtual networks (VNets)
- Subnets
- Virtual network peering
- Configure name resolution
- Azure DNS
- Private DNS zones
- Secure access to virtual networks
- Network security groups (NSGs)
- Application security groups (ASGs)
- Azure Firewall basics
- Configure load balancing
- Azure Load Balancer
- Azure Application Gateway
- Azure Front Door basics
- Monitor and troubleshoot virtual networking
- Network Watcher
- Connection troubleshooters
- Integrate on-premises networks with Azure
- Site-to-site VPN
- Point-to-site VPN
- ExpressRoute basics

5. Monitor and Maintain Azure Resources (10-15%)

- Monitor resources using Azure Monitor
- Log Analytics
- Metrics, alerts
- Action groups
- Implement backup and recovery
- Azure Backup
- Restore files and VMs
- Perform environment maintenance
- Apply updates to VMs
- Use Update Management