

Microsoft Azure Administrator

Duration: 4 Days

Course Description:

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Intended Audience:

This course is for Azure Administrators. 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.

Course Outline:

Configure Microsoft Entra ID

- Introduction
- Describe Microsoft Entra ID benefits and features
- Describe Microsoft Entra concepts
- Compare Active Directory Domain Services to Microsoft Entra ID
- Select Microsoft Entra editions
- Implement Microsoft Entra self-service password reset

Configure user and group accounts

- Introduction
- Create user accounts
- Manage user accounts
- Create bulk user accounts
- Create group accounts
- Create administrative units
- Interactive lab simulation

Configure subscriptions

- Introduction
- Identify Azure regions
- Implement Azure subscriptions
- Obtain an Azure subscription
- Identify Azure subscription usage
- Implement Microsoft Cost Management
- Apply resource tagging
- Apply cost savings

Configure Azure Policy

- Introduction
- Create management groups
- Implement Azure policies

- Create Azure policies
- Create policy definitions
- Create an initiative definition
- Scope the initiative definition
- Determine compliance
- Interactive lab simulation

Configure role-based access control

- Introduction
- Implement role-based access control
- Create a role definition
- Create a role assignment
- Compare Azure roles to Microsoft Entra roles
- Apply role-based access control
- Review fundamental Azure RBAC roles
- Interactive lab simulation

Configure Azure resources with tools

- Introduction
- Use the Azure portal
- Use Azure Cloud Shell
- Use Azure PowerShell
- Interactive lab simulation (Azure PowerShell)
- Use Azure CLI
- Interactive lab simulation (Azure CLI)

Use Azure Resource Manager

- Introduction
- Review Azure Resource Manager benefits
- Review Azure resource terminology
- Create resource groups
- Create Azure Resource Manager locks
- Reorganize Azure resources
- Remove resources and resource groups
- Determine resource limits

Configure resources with Azure Resource Manager templates

- Introduction
- Review Azure Resource Manager template advantages
- Explore the Azure Resource Manager template schema
- Explore the Azure Resource Manager template parameters
- Consider Bicep templates
- Review QuickStart templates
- Interactive lab simulation - templates
- Knowledge check
- Summary and resources

Configure virtual networks

- Introduction
- Plan virtual networks
- Create subnets

- Create virtual networks
- Plan IP addressing
- Create public IP addressing
- Associate public IP addresses
- Allocate or assign private IP addresses
- Interactive lab simulation

Configure network security groups

- Introduction
- Implement network security groups
- Determine network security group rules
- Determine network security group effective rules
- Create network security group rules
- Implement application security groups
- Interactive lab simulation

Configure Azure DNS

- Introduction
- Identify domains and custom domains
- Verify custom domain names
- Create Azure DNS zones
- Delegate DNS domains
- Add DNS record sets
- Plan for Azure Private DNS zones
- Review Azure Private DNS zone scenarios
- Interactive lab simulation

Configure Azure Virtual Network peering

- Introduction
- Determine Azure Virtual Network peering uses
- Determine gateway transit and connectivity
- Create virtual network peering
- Extend peering with user-defined routes and service chaining
- Interactive lab simulation

Configure network routing and endpoints

- Introduction
- Review system routes
- Identify user-defined routes
- Determine service endpoint uses
- Determine service endpoint services
- Identify private link uses
- Interactive lab simulation

Configure Azure Load Balancer

- Introduction
- Determine Azure Load Balancer uses
- Implement a public load balancer
- Implement an internal load balancer
- Determine load balancer SKUs
- Create back-end pools
- Create health probes

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- Create load balancer rules
- Interactive lab simulation

Configure Azure Application Gateway

- Introduction
- Implement Azure Application Gateway
- Determine Azure Application Gateway routing
- Configure Azure Application Gateway components

Configure storage accounts

- Introduction
- Implement Azure Storage
- Explore Azure Storage services
- Determine storage account types
- Determine replication strategies
- Access storage
- Secure storage endpoints

Configure Azure Blob Storage

- Introduction
- Implement Azure Blob Storage
- Create blob containers
- Assign blob access tiers
- Add blob lifecycle management rules
- Determine blob object replication
- Upload blobs
- Determine Blob Storage pricing
- Interactive lab simulation

Configure Azure Storage security

- Introduction
- Review Azure Storage security strategies
- Create shared access signatures
- Identify URI and SAS parameters
- Determine Azure Storage encryption
- Create customer-managed keys
- Apply Azure Storage security best practices
- Interactive lab simulation

Configure Azure Files and Azure File Sync

- Introduction
- Compare storage for file shares and blob data
- Manage Azure file shares
- Create file share snapshots
- Implement Azure File Sync
- Identify Azure File Sync components
- Deploy Azure File Sync

Configure Azure Storage with tools

- Introduction
- Use Azure Storage Explorer
- Use the Azure Import/Export service
- Use the WAImportExport tool
- Use the AzCopy tool

Configure virtual machines

- Introduction
- Review cloud services responsibilities
- Plan virtual machines
- Determine virtual machine sizing
- Determine virtual machine storage
- Create virtual machines in the Azure portal
- Connect to virtual machines
- Interactive lab simulation

Configure virtual machine availability

- Introduction
- Plan for maintenance and downtime
- Create availability sets
- Review update domains and fault domains
- Review availability zones
- Compare vertical and horizontal scaling
- Implement Azure Virtual Machine Scale Sets
- Create Virtual Machine Scale Sets
- Implement autoscale
- Configure autoscale
- Interactive lab simulation

Configure Azure App Service plans

- Introduction
- Implement Azure App Service plans
- Determine Azure App Service plan pricing
- Scale up and scale out Azure App Service
- Configure Azure App Service autoscale

Configure Azure App Service

- Introduction
- Implement Azure App Service
- Create an app with App Service
- Explore continuous integration and deployment
- Create deployment slots
- Add deployment slots
- Secure your App Service app
- Create custom domain names
- Back-up and restore your App Service app
- Use Azure Application Insights
- Interactive lab simulation

Configure Azure Container Instances

- Introduction
- Compare containers to virtual machines
- Review Azure Container Instances
- Implement container groups
- Review the Docker platform
- Interactive lab simulation

Configure file and folder backups

- Introduction
- Describe Azure Backup benefits
- Implement Backup Center for Azure Backup
- Configure Azure Recovery Services vault backup options
- Use the Microsoft Azure Recovery Services (MARS) agent
- Configure on-premises file and folder backups
- Interactive lab simulation

Configure virtual machine backups

- Introduction
- Explore options to protect virtual machine data
- Create virtual machine snapshots in Azure Backup
- Set up Azure Recovery Services vault backup options
- Back up your virtual machines
- Restore your virtual machines
- Implement System Center DPM and Azure Backup Server
- Compare the MARS agent and Azure Backup Server
- Implement soft delete for your virtual machines
- Implement Azure Site Recovery
- Interactive lab simulation

Configure Azure Monitor

- Introduction
- Describe Azure Monitor key capabilities
- Describe Azure Monitor components
- Define metrics and logs
- Identify monitoring data and tiers
- Describe activity log events
- Query the activity log
- Interactive lab simulation

Configure Azure alerts

- Introduction
- Describe Azure Monitor alerts
- Manage Azure Monitor alerts
- Create alert rules
- Create action groups

Configure Log Analytics

- Introduction
- Determine Log Analytics uses
- Create a Log Analytics workspace
- Create Kusto (KQL) queries
- Structure Log Analytics queries

Configure Network Watcher

- Introduction
- Describe Azure Network Watcher features
- Review IP flow verify diagnostics
- Review next hop diagnostics
- Visualize the network topology