



Deploy & Administer Linux Virtual Machines on Azure (AZ-1007)

COURSE OVERVIEW

In this learning path, you prepare for the Applied Skill, Deploy and administer Linux virtual machines on Microsoft Azure.

PREREQUISITES

- Experience using the Azure portal and CLI to create resources.
- Familiarity with identity management and role-based access control.
- Experience creating and configuring Azure virtual machines.
- Working knowledge of administering operating systems based on the Linux kernel.

COURSE OBJECTIVES

Module in the Learning Path:

- Configure Virtual Machines
- Add and Size Disk in Azure Virtual Machines
- Monitor Your Azure Virtual Machines with Azure Monitor
- Protect Your Virtual Machines by Using Azure Backup
- Manage Virtual Machines with the Azure CLI
- Implement Access Management for Azure Resources
- Configure Azure Files and Azure File Sync
- Copy and Move Blobs from One Container or Storage Account to Another Using the AzCopy Command
- Guided Project: Deploy & Administer Linux Virtual Machines on Azure

COURSE OUTLINE

Configure virtual machines:

Learn how to configure virtual machines including sizing, storage, and connections.

- 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



Add & Size Disks in Azure Virtual Machines:

Understand and create the different types of disk storage available to Azure virtual machines (VMs).

- Understand storage options for virtual machines (VMs)
- Exercise - Add a data disk to a VM
- Determine whether to use premium storage
- Resize virtual machine disks
- Exercise - Resize a VM disk

Monitor Your Azure Virtual Machines with Azure Monitor:

Learn how to monitor your Azure VMs by using Azure Monitor to collect and analyze VM host and client metrics and logs.

- Monitoring for Azure VMs
- Monitor VM host data
- Use Metrics Explorer to view detailed host metrics
- Collect client performance counters by using VM insights
- Collect VM client event logs

Protect Your Virtual Machines by Using Azure Backup:

Use Azure Backup to help protect on-premises servers, virtual machines, SQL Server, Azure file shares, and other workloads.

- Azure Backup features and scenarios
- Back up an Azure virtual machine by using Azure Backup
- Exercise - Back up an Azure virtual machine
- Restore virtual machine data
- Exercise - Restore Azure virtual machine data

Manage virtual machines with the Azure CLI:

Learn how to use the cross-platform Azure CLI to create, start, stop, and perform other management tasks related to virtual machines in Azure.

- What is the Azure CLI?
- Exercise - Create a virtual machine
- Exercise - Test your new virtual machine
- Exercise - Explore other VM images
- Exercise - Sizing VMs properly
- Exercise - Query system and runtime information about the VM
- Exercise - Start and stop your VM with the Azure CLI
- Exercise - Install software on your VM

Implement access management for Azure resources:

Explore how to use built-in Azure roles, managed identities, and RBAC-policy to control access to Azure resources. Identity is the key to secure solutions.

- Assign Azure roles
- Configure custom Azure roles
- Create and configure managed identities
- Access Azure resources with managed identities
- Analyze Azure role permissions

- Configure Azure Key Vault RBAC policies
- Retrieve objects from Azure Key Vault
- Explore Microsoft Entra Permissions Management

Configure Azure Files and Azure File Sync:

- Learn how to configure Azure Files and Azure File Sync.
- Compare storage for file shares and blob data
- Manage Azure file shares
- Create file share snapshots
- Implement soft delete for Azure Files
- Use Azure Storage Explorer
- Deploy Azure File Sync

Copy and move blobs from one container or storage account to another using the AzCopy command:

Learn how to use AzCopy to copy and move blobs between containers and storage accounts both synchronously and asynchronously.

- Move Azure Storage blobs using AzCopy
- Exercise - Move Azure Storage blobs using AzCopy

Guided Project: Deploy and administer Linux virtual machines on Azure:

In this guided project module, you prepare and study for the Deploy and administer Linux virtual machines on Azure Applied Skill.

- Exercise - Create and configure Linux virtual machines
- Exercise - Monitor virtual machines
- Exercise - Configure storage for virtual machines
- Exercise - Back up virtual machines

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