

AZ-1007: Deploy and administer Linux virtual machines on Azure

Course Outline

1) Configure virtual machines

- Determine the responsibilities of cloud service providers and customers in a cloud computing environment.
- Identify the key considerations and factors involved in planning for virtual machines, including workload requirements, resource allocation, and secure access.
- Configure virtual machine storage and virtual machine sizing.
- Create a virtual machine in the Azure portal.
- Practice deploying an Azure virtual machine and verify the configuration.

2) Add and size disks in Azure virtual machines

- Create a virtual machine (VM).
- Configure and attach virtual hard drives (VHDs) to an existing VM.
- Determine whether you need premium disks.
- Resize disks for a VM.
- Lab: Add a data disk to a VM.
- Lab: Resize a VM disk.

3) Monitor your Azure virtual machines with Azure Monitor

- Understand which monitoring data you need to collect from your VM.
- Enable and view recommended alerts and diagnostics.
- Use Azure Monitor to collect and analyze VM host metrics data.
- Use Azure Monitor Agent to collect VM client performance metrics and event logs.

4) Protect your virtual machines by using Azure Backup

- Identify the scenarios for which Azure Backup provides backup and restore capabilities.
- Back up and restore an Azure virtual machine.
- Lab: Back up an Azure virtual machine.
- Lab: Restore Azure virtual machine data.

5) Manage virtual machines with the Azure CLI

- Create a virtual machine with the Azure CLI.
- Resize virtual machines with the Azure CLI.
- Perform basic management tasks using the Azure CLI.
- Connect to a running VM with SSH and the Azure CLI.
- Lab: Create a virtual machine.
- Lab: Test your new virtual machine.
- Lab: Explore other VM images.
- Lab: Size VMs properly.
- Lab: Query system and runtime information about the VM.
- Lab: Start and stop your VM with the Azure CLI.

- Lab: Install software on your VM.

6) Implement access management for Azure resources

- Configure and use Azure roles within Microsoft Entra ID.
- Configure a managed identity and assign it to Azure resources.
- Analyze the role permissions granted to or inherited by a user.
- Configure access to data in Azure Key Vault using RBAC policy.

7) Configure Azure Files and Azure File Sync

- Identify storage for file shares versus blob data.
- Configure Azure file shares and file share snapshots.
- Identify features and use cases of Azure File Sync.
- Identify Azure File Sync components and configuration steps.

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

- Copy and move blobs between Azure Storage accounts using the AzCopy tool.
- Lab: Move Azure Storage blobs using AzCopy.

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

- Practice for the Deploy and Administer Linux Virtual Machines on Azure Applied Skill.
- Gain skills to assist with day-to-day administrator job tasks.
- Lab: Create and configure Linux virtual machines.
- Lab: Monitor virtual machines.
- Lab: Configure storage for virtual machines.
- Lab: Back up virtual machines.