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

Microsoft - Cloud

- **Nível:** Intermédio
- **Duração:** 7h

Sobre o curso

In this workshop, you will learn how to deploy and administer Linux virtual machines on Microsoft Azure.

Pré-requisitos

- 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.

Programa

- Configure virtual machines
- Add and size disks 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 and administer Linux virtual machines on Azure

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. Considerations include 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.

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

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.

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

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.

Implement access management for Azure resources

- Configure and use Azure roles within Microsoft Entra ID
- Configure and 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

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.

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.

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.