



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

Microsoft - Cloud

- **Nível:** Intermédio
  - **Duração:** 7h
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### Sobre o curso

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

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### 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.
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### 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.