

## AZ-104: Microsoft Azure Administrator

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 12 Dez. 2022 a 15 Dez. 2022
- **Preço:** 1430€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 28 horas

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.

In this course, students will gain the knowledge and skills about:

- Secure identities with Azure Active Directory, and implement users and groups
- Manage your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control
- The tools an Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates
- Basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS
- Intersite connectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections
- Network traffic strategies including network routing and service endpoints, Azure Load Balancer, Azure Application Gateway, and Traffic Manager
- Basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools
- Azure virtual machines including planning, creating, availability and extensions
- Administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes
- Backing up files and folders, and virtual machine backups
- Monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics

### Destinatários

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.

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## Pré-requisitos

- Successful Azure Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.
  - Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
  - Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
  - Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
  - Understanding of resilience and disaster recovery, including backup and restore operations.
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## Programa

### Identity

- Azure Active Directory
- Users and Groups

**Lab** : Manage Azure Active Directory Identities

### Governance and Compliance

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

**Lab** : Manage Subscriptions and RBAC

**Lab** : Manage Governance via Azure Policy

### Azure Administration

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates

**Lab** : Manage Azure resources by Using the Azure Portal

**Lab** : Manage Azure resources by Using ARM Templates

**Lab** : Manage Azure resources by Using Azure PowerShell

**Lab** : Manage Azure resources by Using Azure CLI

### **Virtual Networking**

- Virtual Networks
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS

**Lab** : Implement Virtual Networking

### **Intersite Connectivity**

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

**Lab** : Implement Intersite Connectivity

### **Network Traffic Management**

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Traffic Manager

**Lab** : Implement Traffic Management

### **Azure Storage**

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

**Lab** : Manage Azure storage

### **Azure Virtual Machines**

- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

**Lab** : Manage virtual machines

## **Serverless Computing**

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

**Lab** : Implement Web Apps

**Lab** : Implement Azure Container Instances

**Lab** : Implement Azure Kubernetes Service

## **Data Protection**

- File and Folder Backups
- Virtual Machine Backups

**Lab** : Implement Data Protection

## **Monitoring**

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher

**Lab** : Implement Monitoring