

**Microsoft Azure Administrator (AZ-104)**

**Course Number:** MOC-AZ-104
**Duration:** 4 days

**Overview**

This Microsoft Azure Administrator Training (AZ-104) training course teaches attendees all aspects of administering Microsoft Azure. This course prepares students for the [AZ-104 exam](https://docs.microsoft.com/en-us/learn/certifications/exams/AZ-104) for which every attendee receives a voucher.

Need more in-depth training on targeted Azure skills taught in this course? For deeper exploration of key topics, add any of these 1-day hands-on Azure learning paths to your training:

* + [Configure Secure Access to your Workloads using Networking with Azure Virtual Network (AZ-1002)](file:////training/configure-secure-access-workloads-networking-azure-virtual-network)
	+ [Secure Storage for Azure Files and Azure Blob Storage (AZ-1003)](file:////training/secure-storage-for-azure-files-and-azure-blob-storage)
	+ [Deploy and Configure Azure Monitor (AZ-1004)](file:////training/deploy-and-configure-azure-monitor)

**Prerequisites**

All students must have an understanding of:

* On-premises virtualization technologies, including VMs, virtual networking, and virtual hard disks
* Network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies
* Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP)
* Resilience and disaster recovery, including backup and restore operations

**Materials**

All Microsoft Azure training students receive Microsoft official courseware.

For all Microsoft Official Courses taught in their entirety that have a corresponding certification exam, an exam voucher is included for each participant.

**Software Needed on Each Student PC**

Attendees will not need to install any software on their computers for this class. The class will be conducted in a remote environment that Accelebrate will provide; students will only need a local computer with a web browser and a stable Internet connection. Any recent version of Microsoft Edge, Mozilla Firefox, or Google Chrome will work well.

**Objectives**

* 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
* Monitor their solutions

**Outline**

* Prerequisites for Azure Administrators
	+ Use Azure Resource Manager
	+ Introduction to Azure Cloud Shell
	+ Introduction to Bash
	+ Introduction to PowerShell
	+ Configure resources with Azure Resource Manager templates
* Managing Identities and Governance in Azure
	+ Understand Microsoft Entra ID
	+ Configure user and group accounts
	+ Configure subscriptions
	+ Configure Azure Policy
	+ Configure role-based access control
	+ Create Azure users and groups in Microsoft Entra ID
	+ Secure your Azure resources with Azure role-based access control (Azure RBAC)
	+ Allow users to reset their password with Microsoft Entra self-service password reset
* Configure and Manage Virtual Networks for Azure Administrators
	+ Configure Virtual Networks
	+ Configure Network Security Groups
	+ Configure Azure Virtual Network Peering
	+ Configure Network Routing and Endpoints
	+ Configure Azure Load Balancer
	+ Configure Azure Application Gateway
	+ Design an IP Addressing Schema for Your Azure Deployment
	+ Distribute Your Services Across Azure Virtual Networks and Integrate Them by Using Virtual Network Peering
	+ Host Your Domain on Azure DNS
	+ Manage and Control Traffic Flow in Your Azure Deployment with Routes
	+ Improve Application Scalability and Resiliency by Using Azure Load Balance
* Implement and Manage Storage in Azure
	+ Configure storage accounts
	+ Configure Azure Blob Storage
	+ Configure Azure Storage security
	+ Configure Azure Files and Azure File Sync
	+ Create an Azure Storage account
	+ Control access to Azure Storage with shared access signatures
	+ Upload, download, and manage data with Azure Storage Explorer
* Deploy and Manage Azure Compute Resources
	+ Configure virtual machines
	+ Configure virtual machine availability
	+ Configure Azure App Service plans
	+ Configure Azure Container Instances
	+ Manage virtual machines with the Azure CLI
	+ Create a Windows virtual machine in Azure
	+ Host a web application with Azure App Service
* Monitor and Back Up Azure Resources
	+ Introduction to Azure Backup
	+ Configure virtual machine backups
	+ Configure Azure Monitor
	+ Configure Log Analytics
	+ Configure Network Watcher
	+ Improve incident response with Azure Monitor alerts
	+ Analyze your Azure infrastructure by using Azure Monitor logs
	+ Monitor your Azure virtual machines with Azure Monitor