

Microsoft Azure Administrator

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.

Duration: 4 days

Audience

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.

Prerequisites

Successful Azure Administrators start this role with experience in virtualization, networking, identity, and storage.

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.

- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including users, groups, and role-based Access control.
- Understanding of resilience and disaster recovery, including backup and restore operations.

Prerequisite courses (or equivalent knowledge and hands-on experience):

This free online training will give you the experience you need to be successful in this course.

- [Azure Fundamentals part 1: Describe core Azure concepts - Learn | Microsoft Docs](#)
- [Azure Fundamentals part 2: Describe core Azure services - Learn | Microsoft Docs](#)
- [Azure Fundamentals part 3: Describe core solutions and management tools on Azure - Learn | Microsoft Docs](#)
- [Azure Fundamentals part 4: Describe general security and network security features - Learn | Microsoft Docs](#)
- [Azure Fundamentals part 5: Describe identity, governance, privacy, and compliance features](#)
- [Azure Fundamentals part 6: Describe Azure cost management and service level agreements](#)
- [AZ-104: Prerequisites for Azure administrators - Learn | Microsoft Docs](#)

Topics

Module 1: Identity

- Azure Active Directory
- Users and Groups

Module 2: Governance and Compliance

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

Module 3: Azure Administration

- Azure Resource Manager
- Azure Administrator Tools
- ARM Templates

Module 4: Virtual Networking

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

Module 5: Intersite Connectivity

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

Module 6: Network Traffic Management

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

Module 7: Azure Storage

- Storage Accounts
- Blob Storage
- Storage Security

- Azure Files and File Sync
- Managing Storage

Module 8: Azure Virtual Machines

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

Module 9: Serverless Computing

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

Module 10: Data Protection

- File and Folder Backups
- Virtual Machine Backups

Module 11: Monitoring

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