APPLIED TECHNOLOGY ACADEMY

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Microsoft Azure Administrator (AZ-104) Training

Microsoft Authorized Training · Applied Technology Academy

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.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginner	**4 Days**	**1 year: Azure**	**$113,154**	**Yes**

Course Overview

This Microsoft Certified Azure Administrator Associate training covers AZ-104 Azure exam objectives, including these topics:

- Configuring and managing resource locks, resource policies, and resource groups
- Configuring access to Azure with role-based access control (RBAC) policies and roles
- Importing and exporting data with Azure job, blob storage, and CDN endpoints
- Configuring Azure File Sync, file shares, and sync groups
- Creating Windows and Linux virtual machines (VMs) with high availability and networking
- Configuring VNET, Azure DNS, Network Security Group (NSG), and Azure load balancer
- Managing Azure Active Directory (AD) including objects (users, groups, and devices)
- Implementing multi-factor authentication (MFA)

Course Outline

- **Module 1: Identity**
  - In this module, you will learn how to secure identities with Azure Active Directory and implement users and groups.
  - Lessons
  - Azure Active Directory
  - Users and Groups
  - Lab : Manage Azure Active Directory Identities
- **Module 2: Governance and Compliance**
  - In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.
  - Lessons
  - Subscriptions and Accounts
  - Azure Policy

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  - Role-based Access Control (RBAC)
  - Lab: Manage Subscriptions and RBAC
  - Lab: Manage Governance via Azure Policy
- **Module 3: Azure Administration**
  - In this module, you will learn about the tools an Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates.
  - Lessons
  - 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
- **Module 4: Virtual Networking**
  - In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS.
  - Lessons
  - Virtual Networks
  - IP Addressing
  - Network Security groups
  - Azure Firewall
  - Azure DNS
  - Lab: Implement Virtual Networking
- **Module 5: Intersite Connectivity**
  - In this module, you will learn about intersite connectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections.
  - Lessons
  - VNet Peering
  - VPN Gateway Connections
  - ExpressRoute and Virtual WAN
  - Lab: Implement Intersite Connectivity
- **Module 6: Network Traffic Management**
  - In this module, you will learn about network traffic strategies including network routing and service endpoints, Azure Load Balancer, Azure Application Gateway, and Traffic Manager.

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  - Lessons
  - Network Routing and Endpoints
  - Azure Load Balancer
  - Azure Application Gateway
  - Traffic Manager
  - Lab: Implement Traffic Management
- **Module 7: Azure Storage**
  - In this module, you will learn about basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools.
  - Lessons
  - Storage Accounts
  - Blob Storage
  - Storage Security
  - Azure Files and File Sync
  - Managing Storage
  - Lab: Manage Azure storage
- **Module 8: Azure Virtual Machines**
  - In this module, you will learn about Azure virtual machines including planning, creating, availability, and extensions.
  - Lessons
  - Virtual Machine Planning
  - Creating Virtual Machines
  - Virtual Machine Availability
  - Virtual Machine Extensions
  - Lab: Manage virtual machines
- **Module 9: Serverless Computing**
  - In this module, you will learn administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes.
  - Lessons
  - 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
- **Module 10: Data Protection**

  - In this module, you will learn about backing up files and folders, and virtual machine backups.
  - Lessons
  - File and Folder Backups
  - Virtual Machine Backups
  - Lab: Implement Data Protection
- **Module 11: Monitoring**
  - In this module, you will learn about monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.
  - Lessons
  - Azure Monitor
  - Azure Alerts
  - Log Analytics
  - Network Watcher
  - Lab: Implement Monitoring

Intended 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 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.

You can gain the prerequisites and a better understanding of Azure by taking AZ-104: Prerequisites for Azure Administrators . This free online training will give you the experience you need to be successful in this course.

Follow-On Courses

- Develop AI Cloud Solutions on Azure (AI-200)
- Azure Security Technologies (AZ-500)

- Microsoft AI-901: Introduction to AI in Azure

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.