



Microsoft Certified: Azure Administrator Associate

Job role: Administrator

Required exams: AZ-104

Courses

[Course AZ-104T00-A: Microsoft Azure Administrator](#)

32hours + 8 extra exam prep

Instructor-led training / live-online training

Intermediate

Preparation for exam: AZ-104

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.

Audience profile

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 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.

Course outline

Module 1: Identity

After completing this module, students will be able to:

- Secure and manage identities with Azure Active Directory.
- Implement and manage users and groups.

Module 2: Governance and Compliance

After completing this module, students will be able to:

- Implement and manage Azure subscriptions and accounts.
- Implement Azure Policy, including custom policies.
- Use RBAC to assign permissions.

Module 3: Azure Administration

After completing this module, students will be able to:

- Leverage Azure Resource Manager to organize resources.
- Use the Azure Portal and Cloud Shell.
- Use Azure PowerShell and CLI.
- Use ARM Templates to deploy resources.

Module 4: Virtual Networking

After completing this module, students will be able to:

- Implement virtual networks and subnets.
- Configure public and private IP addressing.
- Configure network security groups.
- Configure Azure Firewall.
- Configure private and public DNS zones.

Module 5: Intersite Connectivity

After completing this module, students will be able to:

- Configure VNet Peering.
- Configure VPN gateways.
- Choose the appropriate intersite connectivity solution.

Module 6: Network Traffic Management

After completing this module, students will be able to:

- Configure network routing including custom routes and service endpoints.
- Configure an Azure Load Balancer.
- Configure and Azure Application Gateway.
- Choose the appropriate network traffic solution.

Module 7: Azure Storage

After completing this module, students will be able to:

- Create Azure storage accounts.
- Configure blob containers.
- Secure Azure storage.
- Configure Azure files shares and file sync.
- Manage storage with tools such as Storage Explorer.

Module 8: Azure Virtual Machines

After completing this module, students will be able to:

- Plan for virtual machine implementations.
- Create virtual machines.
- Configure virtual machine availability, including scale sets.
- Use virtual machine extensions.

Module 9: Serverless Computing

After completing this module, students will be able to:

- Create an app service plan.
- Create a web app.
- Implement Azure Container Instances.
- Implement Azure Kubernetes Service.

Module 10: Data Protection

After completing this module, students will be able to:

- Backup and restore file and folders.
- Backup and restore virtual machines.

Module 11: Monitoring

After completing this module, students will be able to:

- Use Azure Monitor.
- Create Azure alerts.
- Query using Log Analytics.
- Use Network Watcher.

For more information:



Hellenic American Education Center

Center for Life Long Learning

[Technology Training](#)

Tel. 2103680966, 2103680912

e-mail: it@haec.gr