

KOENIG SOLUTIONS • COURSE OUTLINE

AZ-104 Exam Prep

Exam prep on following topics

11

MODULES

80

TOPICS

17

HANDS-ON LABS

COURSE OVERVIEW

This course covers core Azure administration tasks aligned to the AZ-104 exam, beginning with securing identities using Azure Active Directory and managing governance through subscriptions, Azure Policy and role-based access control. It then addresses administration tools such as the Azure Portal, Cloud Shell, PowerShell, CLI and ARM templates, before moving into virtual networking, intersite connectivity and network traffic management. The course also covers Azure storage, virtual machines and serverless computing services including App Service, Container Instances and Azure Kubernetes Service, concluding with data protection and monitoring using Azure Monitor and Log Analytics.

WHO THIS COURSE IS FOR

Azure Administrators

Cloud Administrators

Infrastructure Engineers

Systems Administrators

Network Administrators

LEARNING OBJECTIVES

- Secure and manage identities with Azure Active Directory
- Implement Azure Policy and role-based access control
- Manage Azure resources using PowerShell, CLI and ARM templates
- Configure virtual networks, IP addressing and network security groups
- Configure intersite connectivity using VNet peering and VPN gateways
- Configure load balancing and traffic management solutions
- Manage Azure storage accounts, blob storage and file shares
- Implement Azure virtual machines, App Service and Kubernetes Service

11 Modules, 80 Topics

01

Lab

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

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

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

02

2 Labs

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
- Role-based Access Control (RBAC)

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

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

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

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

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

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

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

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

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.

LESSONS

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

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

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

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

08**Lab**

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

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

09**3 Labs**

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

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

10**Lab**

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

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

Backup and restore file and folders · Backup and restore virtual machines

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

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

Use Azure Monitor · Create Azure alerts · Query using Log Analytics · Use Network Watcher

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Identity	Manage Azure Active Directory Identities
02	Governance and Compliance	■ Manage Subscriptions and RBAC ■ Manage Governance via Azure Policy
03	Azure Administration	■ Manage Azure resources by Using the Azure Portal ■ Manage Azure resources by Using ARM Templates ■ Manage Azure resources by Using Azure PowerShell ■ Manage Azure resources by Using Azure CLI
04	Virtual Networking	Implement Virtual Networking
05	Intersite Connectivity	Implement Intersite Connectivity
06	Network Traffic Management	Implement Traffic Management
07	Azure Storage	Manage Azure storage
08	Azure Virtual Machines	Manage virtual machines
09	Serverless Computing	■ Implement Web Apps ■ Implement Azure Container Instances ■ Implement Azure Kubernetes Service
10	Data Protection	Implement Data Protection
11	Monitoring	Implement Monitoring

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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