

KOENIG SOLUTIONS • COURSE OUTLINE

Azure API Management

Learn to publish, secure and manage APIs using Azure API Management, from gateways and policies to the developer portal.

2 Days

16 HOURS

10

MODULES

49

TOPICS

12

HANDS-ON EXERCISES

COURSE OVERVIEW

This course covers Azure API Management, including its components, gateway, management plane and developer portal, and how to import, publish, mock and version APIs. It then examines the developer portal, self-hosted and managed gateways, and the use of policies for caching, transformation and throttling. Coverage extends to securing APIs with subscriptions and client certificates, and to exposing multiple Azure Function apps as a single consistent API.

WHO THIS COURSE IS FOR

API Developers

Cloud Administrators

Azure Solutions Architects

Backend Developers

Integration Engineers

LEARNING OBJECTIVES

- Explain how Azure API Management components and tiers work together
- Import, publish and version APIs using Azure API Management
- Configure the developer portal and secure access to it
- Compare managed and self-hosted API gateways
- Apply caching, transformation and throttling policies to APIs
- Secure APIs using subscriptions and client certificates
- Expose multiple Azure Function apps as a single consistent API

10 Modules, 49 Topics

01

Introduction to Azure API Management

TOPICS

Introduction · What is Azure API Management?

HOW AZURE API MANAGEMENT WORKS

API Management components · API gateway · Management plane · Developer portal · API Management tiers · Integration with Azure services

When to use Azure API Management

02

Working with API Management

TOPICS

Import your first API · Create and publish a product · Mock API responses · Protect your API · Monitor published APIs · Debug your APIs · Add revisions · Add multiple versions

03

Developer Portal

TOPICS

Overview of the developer portal · Working with subscription · Secure access to developer portal · Access and customize the developer portal

04

Explore API Management

TOPICS

- Introduction
- Discover the API Management service

EXPLORE API GATEWAYS

- Role of the gateway
- Managed and self-hosted
- **Feature comparison:** Managed versus self-hosted gateways

05

API Management Policies

TOPICS

Explore API Management policies · Create advanced policies · Secure APIs by using subscriptions · Secure APIs by using certificates

Exercise

06

Publish and Manage Your APIs with Azure API Management

TOPICS

Introduction · Create an API gateway · Import and publish an API · Call an API with a subscription key

3 Exercises

07**Exercise**

Improve the Performance of an API by Adding a Caching Policy in Azure API Management

TOPICS

Introduction · Choose the right API Management policy · Knowledge check · Configure a caching policy

08**3 Exercises**

Protect Your APIs on Azure API Management

TOPICS

- Introduction
- Remove technical information from API responses
- Mask URLs with a transformation policy
- Throttle API requests

09**2 Exercises**

Control Access to Your APIs with Azure API Management

TOPICS

- Introduction
- What is API Management?
- Create subscriptions in Azure API Management
- Use client certificates to secure access to an API

10**2 Exercises**

Expose Multiple Azure Function Apps as a Consistent API by Using Azure API Management

TOPICS

- Introduction
- Create a new API in API Management from a function app
- The benefits of using Azure API Management to compose your API

Practise What You Learn

#	MODULE	ACTIVITY
05	API Management Policies	Create a backend API
06	Publish and Manage Your APIs with Azure API Management	- Create an API gateway - Import and publish an API - Call an API with a subscription key
07	Improve the Performance of an API by Adding a Caching Policy in Azure API Management	Configure a caching policy
08	Protect Your APIs on Azure API Management	- Remove header information - Mask URLs with a transformation policy - Throttle API requests
09	Control Access to Your APIs with Azure API Management	- Create subscriptions in Azure API Management - Use client certificates to secure access to an API
10	Expose Multiple Azure Function Apps as a Consistent API by Using Azure API Management	- Create a new API in API Management from a function app - Add another Azure Functions app to an existing API

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

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com

✉ info@koenig-solutions.com