

Azure API Management Training

Course Duration: 16 Hours

Course Code: AZ-APIM-01

1. Course Overview

Azure API Management Training is designed to help professionals learn how to publish, secure, monitor, and manage APIs using Microsoft Azure. This course covers API gateway configuration, policy management, security implementation, and performance optimization to ensure scalable and secure API ecosystems for modern applications.

2. What You'll Learn

- Introduction to Azure API Management (APIM)
- Creating and managing APIs in Azure
- Implementing API gateways and policies
- Securing APIs using authentication & authorization
- Monitoring and analytics of APIs
- API versioning and lifecycle management
- Integrating APIM with Azure services
- Performance tuning and caching strategies

3. Target Audience

- API Developers
- Cloud Engineers & Architects
- DevOps Professionals
- Backend Developers
- IT Professionals working with Azure

- Anyone interested in API lifecycle management

4. Pre-Requisites

- Basic understanding of APIs (REST/HTTP)
- Knowledge of cloud computing concepts
- Familiarity with Microsoft Azure fundamentals
- Basic programming knowledge (optional but helpful)

5. Course Content

Module 1: Introduction to APIs & Azure APIM

- API fundamentals
- Overview of Azure API Management
- APIM architecture

Module 2: Creating APIs in Azure

- Importing APIs
- Designing APIs
- OpenAPI specifications

Module 3: API Gateway & Policies

- API gateway concepts
- Policy definitions and implementation
- Rate limiting and throttling

Module 4: Security & Authentication

- OAuth 2.0 and JWT
- Subscription keys
- Access control and security best practices

Module 5: Monitoring & Analytics

- Azure Monitor integration
- Logging and diagnostics
- Usage analytics

Module 6: API Lifecycle Management

- Versioning strategies
- Revisions and deployments
- CI/CD integration

Module 7: Performance Optimization

- Caching policies
- Load balancing
- Scaling APIs

Module 8: Integration with Azure Services

- Azure Functions
- Logic Apps
- App Services