



MICROSOFT TRAINING

Azure API Management Course Overview

Master Azure API Management to securely publish, control, and analyze APIs. Optimize your API lifecycle and drive integration.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The Azure API Management Course Overview provides a comprehensive deep dive into leveraging Microsoft Azure's powerful API Management service. This intermediate-level course, spanning 48 hours, is meticulously designed for IT professionals, developers, and architects seeking to master the end-to-end lifecycle of APIs in a cloud-native environment. You will gain hands-on experience with core technologies such as the Azure API Management gateway, developer portal, and analytics dashboard, learning to effectively publish, secure, transform, and monitor your APIs. The curriculum covers essential concepts from importing existing APIs and defining sophisticated policies to integrating with identity providers and setting up robust monitoring solutions.

Participants will develop critical skills in designing highly scalable and secure API ecosystems, crucial for modern application development and enterprise integration. By understanding how to apply various API policies – including caching, rate limiting, and request/response transformations – you will be able to optimize API performance, enhance security, and streamline developer experience. This course is an invaluable asset for anyone looking to drive digital transformation initiatives, expose backend services securely, or build robust microservices architectures using Azure.

Upon completion, you will be proficient in managing the full API lifecycle, ensuring your organization can deliver secure, performant, and discoverable APIs to internal and external consumers. The professional benefits extend to improved system integration capabilities, reduced operational overhead, and the ability to unlock new revenue streams through a well-managed API strategy, making you a vital asset in any cloud-driven enterprise.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure API Management

- Understanding the API Economy and its importance
- Overview of Azure API Management (APIM) components and architecture
- Key use cases and benefits of APIM for enterprise scenarios
- Provisioning and configuring an APIM instance
- Basic navigation and interface exploration of the APIM portal

02 Module 2: Publishing and Managing APIs

- Importing various API types (REST, SOAP, OpenAPI/Swagger)
- Understanding API versions, revisions, and changelogs for lifecycle management
- Configuring Products, groups, and subscriptions for granular access control
- Implementing custom domains and SSL/TLS certificates
- Designing and implementing API operations and methods

03 Module 3: API Security and Policies

- Implementing Authentication and Authorization methods (OAuth 2.0, JWT, Managed Identities)
- Configuring IP filtering and Cross-Origin Resource Sharing (CORS)
- Understanding and applying APIM Policies (inbound/outbound processing)
- Implementing caching, throttling, and rate limiting policies for performance and protection
- Request and response transformation policies for data manipulation

04 Module 4: Developer Experience and Portal Customization

- Overview of the Developer Portal functionalities and purpose
- Customizing the Developer Portal branding, content, and layout
- Managing users, groups, and subscriptions within the portal
- Onboarding developers and providing comprehensive API documentation
- Utilizing the Developer Portal for API testing and debugging

05 Module 5: Monitoring, Analytics, and Troubleshooting

- Integrating APIM with Azure Monitor and Application Insights for observability
- Analyzing API usage, performance, and health metrics
- Setting up proactive alerts and diagnostics logs for operational insights
- Troubleshooting common APIM issues and error patterns
- Understanding security audits and compliance reporting for APIs

06 Module 6: Advanced Topics and DevOps Integration

- Implementing CI/CD pipelines for APIM with Azure DevOps
- Automating APIM deployment using ARM templates and Bicep
- Implementing self-hosted gateways for hybrid and multi-cloud scenarios
- Integrating APIM with Azure Functions, Logic Apps, and Event Grid
- Best practices for API versioning and deprecation strategies

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Solutions Architect specializing in integration and API strategy**
- > **API Integration Specialist focused on designing and implementing secure API ecosystems**
- > **Backend Developer with expertise in publishing, securing, and managing APIs on Azure**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for enrolling in the Azure API Management Course Overview?

While there are no strict certification prerequisites, participants should have a foundational understanding of Azure services, particularly Azure App Services or similar compute services, and a basic grasp of RESTful API concepts. Familiarity with JSON and XML formats is also beneficial, as the course dives into API definition and transformation policies.

Q: How will this course specifically enhance my ability to design secure and scalable API solutions on Azure compared to general API development courses?

This course focuses uniquely on the Azure API Management service, equipping you with deep expertise in its security features like OAuth 2.0, JWT validation, and IP filtering directly within the API gateway. You'll learn to implement advanced policies for caching and throttling, directly contributing to API scalability and performance. Unlike general courses, it emphasizes the architectural patterns and best practices for managing a comprehensive API ecosystem within the Azure cloud, ensuring your solutions are not just functional but also resilient, secure, and easily consumable.

Q: What advanced API lifecycle management challenges will I be equipped to solve after completing this

training?

Upon completion, you will be proficient in solving complex challenges such as effectively versioning and deprecating APIs without breaking consumer applications, managing diverse API products and subscriptions for different user groups, and enforcing granular security policies across a large portfolio of services. You'll also learn to set up robust monitoring and alerting for proactive issue resolution, and integrate APIM seamlessly into a CI/CD pipeline for automated, reliable API deployments, ensuring efficient and secure API lifecycle governance from development to retirement.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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