

Kong Gateway Operations

London (UK)

30 September - 4 October 2024

UK Traininig

PARTNER



Kong Gateway Operations

Code: IT28 From: 30 September - 4 October 2024 City: London (UK) Fees: 5100 Pound

Introduction

Welcome to the Kong Gateway Operations course, where you will gain a comprehensive understanding of the modern and advanced techniques for operating Kong Gateway. This course is designed to equip you with the knowledge and skills necessary to effectively manage and optimize Kong Gateway deployments. Whether you are a developer, DevOps engineer, or system administrator, this course will provide you with the expertise needed to streamline your API gateway operations.

Objectives

- Understand the fundamentals of Kong Gateway: Gain a solid understanding of the key features, components, and architecture of Kong Gateway, and how it fits into the API ecosystem.
- Configure and deploy Kong Gateway: Learn how to set up and configure Kong Gateway in different environments, including on-premises and cloud platforms.
- API lifecycle management: Explore the best practices for managing APIs with Kong Gateway, including API design, versioning, authentication, and rate limiting.
- Load balancing and traffic management: Discover advanced techniques for load balancing and traffic control using Kong Gateway, including request routing, health checks, and circuit breaking.
- Security and authentication: Learn how to secure your APIs with Kong Gateway through authentication, authorization, and encryption techniques such as OAuth 2.0, JWT, and SSL/TLS.
- Monitoring and analytics: Explore the monitoring and analytics capabilities of Kong Gateway, including logging, metrics, and real-time analytics, to gain insights into API performance and usage.
- High availability and scalability: Understand how to configure Kong Gateway for high availability and scalability, including clustering, replication, and auto-scaling strategies.
- Deployment automation: Learn how to automate the deployment and management of Kong Gateway using containerization technologies like Docker and orchestration tools like Kubernetes.
- Troubleshooting and maintenance: Acquire the skills to diagnose and resolve common issues that may arise in Kong Gateway deployments, as well as perform routine maintenance tasks.

Course Outline

Day 1

Introduction to Kong Gateway

- Overview of API gateways and their role in modern application architectures
- Introduction to Kong Gateway: features, benefits, and use cases
- Installing and configuring Kong Gateway



Day 2

API Lifecycle Management

- API design best practices
- Versioning and deprecation strategies
- Authentication and authorization mechanisms

Day 3

Load Balancing and Traffic Management

- Understanding load balancing algorithms
- Implementing advanced traffic control mechanisms
- Health checks and circuit breaking

Day 4

Security and Analytics

- Securing APIs using authentication and encryption
- Monitoring API performance and usage
- Logging and analytics with Kong Gateway

Day 5

Scalability, Automation, and Maintenance

- Scaling Kong Gateway for high availability
- Deployment automation using Docker and Kubernetes
- Troubleshooting and maintenance best practices



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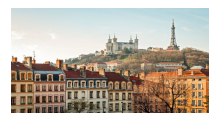
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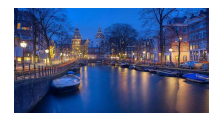
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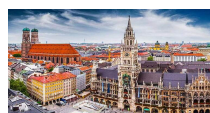
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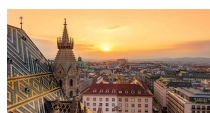
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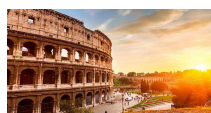
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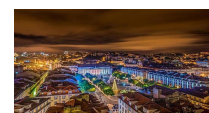
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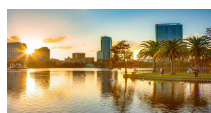


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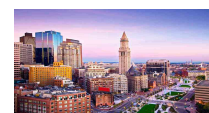
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