

## Kong Gateway Operations

*Cairo (Egypt)*

*13 - 17 July 2025*

UK Traininig

# PARTNER



# Kong Gateway Operations

Code: IT28 From: 13 - 17 July 2025 City: Cairo (Egypt) Fees: 4000 Pound

## Introduction

Welcome to the Kong Gateway Operations course, a comprehensive program designed to provide you with an in-depth understanding of the advanced techniques required to operate Kong Gateway effectively. This course will equip you with the essential knowledge and practical skills needed to manage and optimize Kong API Gateway deployments, ensuring smooth and efficient API operations. Whether you're a developer, DevOps engineer, or system administrator, this training will empower you to maximize the potential of Kong Gateway in your API infrastructure.

## Course Objectives

- Understand the fundamentals of Kong Gateway: Gain a solid foundation in Kong Gateway's architecture, components, and key features. Understand how Kong API Gateway integrates into modern API ecosystems, enabling seamless API management.
- Configure and deploy Kong Gateway: Learn how to install, configure, and deploy Kong Gateway across various environments, from on-premises infrastructure to cloud platforms. This includes setting up both Kong Gateway foundations and deployment pipelines.
- API lifecycle management: Discover best practices for managing the full API lifecycle with Kong API Gateway, including API design, versioning, authentication, and rate-limiting policies to ensure robust and secure API management.
- Load balancing and traffic management: Dive into advanced techniques for load balancing and traffic management using Kong Gateway. Explore request routing, health checks, and circuit breaking strategies to optimize API performance and uptime.
- Security and authentication: Learn essential API gateway security best practices, including authentication, authorization, and encryption mechanisms like OAuth 2.0, JWT, and SSL/TLS. Understand how to ensure your APIs are protected against threats with Kong API Gateway security features.
- Monitoring and analytics: Master the monitoring and analytics capabilities of Kong Gateway. Learn to leverage Kong API Gateway monitoring tools, logging, and real-time analytics to gain insights into API performance and optimize resource allocation.
- High availability and scalability: Understand how to configure Kong Gateway for high availability and scalability, using clustering, replication, and auto-scaling strategies to ensure reliable API service delivery even under heavy load.
- Deployment automation: Learn how to automate the deployment and management of Kong Gateway through modern containerization tools such as Docker, and orchestration platforms like Kubernetes, to ensure seamless operations and scalability.
- Troubleshooting and maintenance: Develop the skills needed to troubleshoot common deployment issues, perform routine maintenance, and ensure the long-term performance and stability of your Kong Gateway deployment.

## Course Outlines



## Day 1: Introduction to Kong Gateway

- Overview of API gateways and their crucial role in modern application architectures
- Introduction to Kong API Gateway: its features, benefits, and primary use cases
- Installing and configuring Kong Gateway for the first time

## Day 2: API Lifecycle Management

- Best practices for API design and managing versioning
- Implementing API security policies, including authentication and authorization
- Effective API lifecycle management with Kong Gateway

## Day 3: Load Balancing and Traffic Management

- Understanding load balancing algorithms used in Kong Gateway
- Techniques for implementing advanced traffic control mechanisms
- Configuring health checks and circuit breaking for improved resilience

## Day 4: Security and Analytics

- Securing APIs through authentication and encryption strategies with Kong API Gateway security
- Monitoring API performance using Kong Gateway analytics tools
- Implementing real-time logging and analytics to track API usage and performance

## Day 5: Scalability, Automation, and Maintenance

- Scaling Kong Gateway for high availability in production environments
- Automating Kong Gateway deployments using Docker and Kubernetes
- Troubleshooting, maintaining, and optimizing Kong Gateway performance

## Conclusion

By the end of this course, you will be well-equipped to manage and optimize Kong Gateway deployments, improve API gateway security, and apply advanced monitoring techniques. This course not only prepares you for Kong API Gateway certification, but also provides you with the essential skills to effectively manage Kong API Gateway performance and ensure your APIs remain secure, scalable, and highly available.



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