

Kong Gateway Operations

Cairo (Egypt)

12 - 16 July 2026

UK Traininig

PARTNER



Kong Gateway Operations

Code: IT28 From: 12 - 16 July 2026 City: Cairo (Egypt) Fees: 4000 Pound

Introduction

Welcome to the Kong Gateway Operations course, a comprehensive and advanced training program tailored to equip you with the skills required to effectively operate and manage Kong API Gateway. Whether you're a developer, DevOps engineer, or system administrator, this course is designed to deepen your understanding of Kong Gateway foundations, giving you the tools needed to optimize API performance and ensure secure, scalable deployments.

This training blends theoretical concepts with hands-on practice, providing a solid grasp of what Kong Gateway is, how it functions in modern API ecosystems, and how to implement API Gateway security best practices. By the end of this program, you'll be fully prepared to manage Kong API Gateway performance, ensuring efficient API management and robust security.

Course Objectives

- **Understand the Fundamentals of Kong Gateway:** Gain a thorough understanding of Kong Gateway architecture, its components, and integration within modern API infrastructures. Learn how Kong API Gateway supports seamless API management and enhances performance.
- **Configure and Deploy Kong API Gateway:** Master the installation, configuration, and deployment of Kong Gateway in various environments, from on-premises servers to cloud platforms. Learn how to set up pipelines for efficient deployment and management.
- **Manage API Lifecycle:** Discover best practices for managing the full API lifecycle using Kong API Gateway, including API design, versioning, authentication, and rate-limiting policies.
- **Optimize Load Balancing and Traffic Management:** Delve into advanced load balancing techniques and traffic management tools to ensure smooth and efficient API operations. Explore routing strategies, health checks, and circuit-breaking features for optimal Kong Gateway performance.
- **Strengthen API Gateway Security:** Learn to implement API Gateway security policies and understand the security benefits of using Kong API Gateway. Topics include OAuth 2.0, JWT, and SSL/TLS encryption to protect APIs against potential threats.
- **Monitor and Analyze API Performance:** Master Kong API Gateway monitoring tools to track real-time performance metrics and optimize resource allocation. Understand how to leverage logging and analytics for better operational insights.
- **Ensure High Availability and Scalability:** Configure Kong Gateway for high availability, scalability, and resilience using clustering, replication, and auto-scaling techniques.
- **Automate Deployments and Maintenance:** Learn to automate Kong API Gateway deployments using Docker and Kubernetes, ensuring seamless scalability and efficient system management.
- **Troubleshoot and Maintain Kong Gateway:** Develop troubleshooting skills to quickly identify and resolve issues, maintain system health, and optimize Kong API Gateway performance over time.

Course Outlines



Day 1: Introduction to Kong Gateway

- Overview of API gateways and their role in modern architecture
- Understanding what is Kong Gateway and its key features
- Installing and configuring Kong API Gateway for the first time
- Setting up Kong Gateway foundations and basic deployment pipelines

Day 2: API Lifecycle Management

- Best practices for API design, versioning, and lifecycle management
- Implementing API authentication and authorization using Kong API Gateway security features
- Rate-limiting and traffic control policies for robust API management

Day 3: Load Balancing and Traffic Management

- Understanding load balancing algorithms and traffic routing in Kong Gateway
- Configuring health checks and circuit-breaking strategies for optimal Kong Gateway performance
- Advanced traffic management techniques for improving uptime and reliability

Day 4: API Gateway Security and Monitoring

- Implementing API Gateway security best practices including encryption SSL/TLS and OAuth 2.0
- Setting up Kong API Gateway monitoring tools for real-time analytics and performance tracking
- Logging and audit trails to ensure API Gateway security compliance

Day 5: Scalability, Automation, and Maintenance

- Scaling Kong Gateway for high availability in production environments
- Automating deployments with Docker and Kubernetes for efficient operations
- Troubleshooting common issues and performing routine maintenance to ensure long-term Kong API Gateway performance
- Preparing for Kong API Gateway certification and advanced deployment scenarios

Why Attend This Course: Wins & Losses!

- Master Kong API Gateway Operations: Gain deep insights into Kong Gateway architecture, deployment, and optimization techniques, ensuring smooth API operations.
- Enhance API Gateway Security: Learn how to implement industry-standard API Gateway security policies, protecting your APIs from threats while maintaining performance.
- Achieve Certification: Prepare for Kong API Gateway certification with hands-on training that builds the skills necessary for real-world API management challenges.
- Optimize Performance and Scalability: Learn how to monitor, troubleshoot, and enhance Kong Gateway performance for maximum efficiency and uptime.

Conclusion

By the end of this course, you will have mastered the advanced techniques required to deploy, manage, and optimize

Kong API Gateway in various environments. With a strong focus on API Gateway security, monitoring, and performance optimization, this training not only prepares you for Kong API Gateway certification but also empowers you to maintain secure, scalable, and high-performing APIs.

Whether you're looking to deepen your understanding of what is Kong Gateway or aiming to streamline your API infrastructure, this course provides the tools and expertise you need to succeed in the evolving world of API management.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior,
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

