

A graphic featuring a blue circuit board background with a central padlock icon and a gear-like structure, all enclosed within a white circular frame. The entire graphic is set against a yellow and white geometric background.

Cyber Security and Technology

Cloud Mastery Build, Deploy, Scale

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- Location: London
 - Date: From 17/3/2025 To 21/3/2025
 - Investment: \$5950 (Excluding VAT)



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Course Introduction

This 5-day intensive course provides a comprehensive, hands-on experience in building, deploying, and scaling applications and infrastructure in the cloud. Participants will gain practical skills in leveraging cloud platforms (e.g., AWS, Azure, GCP) to design, implement, and manage scalable and resilient cloud solutions. The course focuses on best practices, automation, and security, enabling participants to confidently navigate the complexities of cloud computing.

Training Method

- Pre-assessment
 - Live group instruction
 - Use of real-world examples, case studies and exercises
 - Interactive participation and discussion
 - Power point presentation, LCD and flip chart
 - Group activities and tests
 - Each participant receives a binder containing a copy of the presentation
 - slides and handouts
 - Post-assessment
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Course Objectives

Upon successful completion of this course, participants will be able to:


- Understand the core concepts of cloud computing, including IaaS, PaaS, and SaaS.
- Design and deploy scalable and resilient infrastructure in the cloud.
- Automate infrastructure provisioning and application deployment using Infrastructure as Code (IaC).
- Implement best practices for cloud security and compliance.
- Monitor and optimize cloud performance and costs.
- Utilize cloud-native services for application development and deployment.
- Scale applications and infrastructure to meet changing demands.
- Develop and implement disaster recovery and business continuity plans in the cloud.
- Troubleshoot common cloud-related issues.

Who Should Attend?

This course is designed for a wide range of IT professionals, including:

- System Administrators
- Network Engineers
- DevOps Engineers
- Software Developers
- Cloud Architects
- IT Managers

Anyone seeking to enhance their cloud computing skills.



Course Outline

Day 1: Cloud Computing Fundamentals and Infrastructure

- Introduction to Cloud Computing: Concepts, Models, and Benefits
- Cloud Service Models: IaaS, PaaS, SaaS
- Cloud Deployment Models: Public, Private, Hybrid, Multi-Cloud
- Virtualization and Cloud Infrastructure (Compute, Storage, Networking)
- Setting up a Cloud Account and Basic Navigation
- Hands-on Lab: Creating and managing virtual machines and storage in the cloud.

Day 2: Infrastructure as Code (IaC) and Automation

- Introduction to Infrastructure as Code (IaC): Benefits and Tools (e.g., Terraform, CloudFormation)
- Automating Infrastructure Provisioning and Configuration
- Configuration Management Tools (e.g., Ansible, Puppet, Chef)
- Continuous Integration/Continuous Deployment (CI/CD) Pipelines
- Hands-on Lab: Deploying infrastructure using Terraform or CloudFormation.

Day 3: Cloud Networking and Security


- Virtual Networks, Subnets, and Routing
- Security Groups and Network Access Control Lists (NACLs)
- VPNs and Direct Connect
- Cloud Security Best Practices: Identity and Access Management (IAM), Encryption, Compliance
- Security Monitoring and Logging
- Hands-on Lab: Configuring virtual networks and security groups.

Course Outline

Day 4: Cloud-Native Applications and Services

- Containerization and Orchestration (Docker, Kubernetes)
- Serverless Computing (AWS Lambda, Azure Functions, Google Cloud Functions)
- Database Services (Relational, NoSQL)
- Message Queues and Event-Driven Architectures
- Microservices Architecture
- Hands-on Lab: Deploying a containerized application using Kubernetes or serverless functions.

Day 5: Scalability, Monitoring, and Disaster Recovery

- Auto Scaling and Load Balancing
 - Monitoring Cloud Resources and Applications
 - Cost Optimization and Management
 - Disaster Recovery and Business Continuity Planning
 - Backup and Recovery Strategies
 - Troubleshooting Cloud-Related Issues
 - Hands-on Lab: Implementing auto scaling and monitoring for an application.
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- The bottom of the slide features two large, abstract geometric shapes. On the left, a dark gray triangle points upwards towards the center. On the right, a large orange triangle points downwards towards the center, creating a triangular negative space in the middle of the bottom edge.

Registration & Payment

Complete & Mail to London Royal Academy or email
registration@londonra.com



Registration Form

- Full Name (Mr / Ms / Dr / Eng)
- Position
- Telephone / Mobile
- Personal E-Mail
- Official E-Mail
- Company Name
- Address
- City / Country

Payment Options

- ☐ Please invoice me
- ☐ Please invoice my company





Terms & Conditions

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Cancellation and Refund Policy

Delegates have 14 days from the date of booking to cancel and receive a full refund or transfer to another date free of charge. If less than 14 days' notice is given, then we will be unable to refund or cancel the booking unless on medical grounds. For more details about the Cancellation and Refund policy, please visit

www.londonra.com/terms-and-conditions/

Registration & Payment

Please complete the registration form on the course page & return it to us indicating your preferred mode of payment. For further information, please get in touch with us

Course Materials

The course material, prepared by the LRA, will be digital and delivered to candidates by email

Certificates

Accredited Certificate of Completion will be issued to those who attend & successfully complete the programme.

Travel and Transport

We are committed to picking up and dropping off the participants from the airport to the hotel and back.



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THANK YOU

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