

Cloud solutions

*Cairo (Egypt)*

*16 - 20 February 2025*

UK Traininig

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## Cloud solutions

Code: IT28 From: 16 - 20 February 2025 City: Cairo (Egypt) Fees: 3900 Pound

### Introduction

"Cloud solutions" refer to a range of cloud-based services and technologies that enable businesses and individuals to access and utilize computing resources and applications over the internet. These solutions leverage cloud computing, which is a model for delivering various computing services, including servers, storage, databases, networking, software, analytics, and more, over the internet.

### Course Objectives

- Understanding Cloud Concepts
- Technical Proficiency
- Security Knowledge
- Architectural Insights
- Cloud Application Development
- DevOps and CI/CD Proficiency
- Effective Resource Management
- Data Management Skills
- Exploring Advanced Cloud Services
- Migration Strategies
- Risk Assessment and Compliance
- Cost Management
- Disaster Recovery and Business Continuity
- Real-World Applications
- Hands-On Experience

### Course Outlines

#### Day 1

#### Fundamentals of Cloud Computing

- Understanding the cloud concept
- Types of cloud services IaaS, PaaS, SaaS
- Benefits and challenges of cloud solutions
- Cloud deployment models public, private, hybrid



- Key cloud providers and their offerings

## Day 2

### Cloud Infrastructure and Architecture

- Virtualization and containerization
- Network and storage in the cloud
- Security in cloud computing
- Scalability and elasticity
- Hands-on practice with cloud services

## Day 3

### Cloud Application Development

- Building and deploying cloud-native applications
- Microservices and serverless architecture
- DevOps and continuous integration/continuous deployment CI/CD
- Managing data in the cloud
- Practical exercises on app development

## Day 4

### Cloud Services and Solutions

- Databases in the cloud
- AI and machine learning services
- Internet of Things IoT in the cloud
- Cloud monitoring and management tools
- Case studies and real-world applications

## Day 5

### Cloud Migration and Best Practices

- Strategies for migrating to the cloud
- Risk assessment and compliance
- Cost management in the cloud
- Disaster recovery and business continuity
- Final project and course review.





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**BLACKBIRD**  
FOR TRAINING

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

 +44 7401 1773 35  
+44 7480 775526

 [Sales@blackbird-training.com](mailto:Sales@blackbird-training.com)

 [www.blackbird-training.com](http://www.blackbird-training.com)

