

## Networking Essentials for Cloud Applications on AWS

Duration: 1 Day    Course Code: GK910026

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### Overview:

The Networking Essentials for Cloud Applications on AWS course provides a comprehensive understanding of networking concepts and services within the Amazon Web Services (AWS) cloud environment. Designed for novice and experienced networking engineers, this course covers essential topics, best practices, and hands-on labs. Its purpose is to equip learners with the knowledge and skills that are required to design, configure, and optimize network infrastructure on AWS.

This course includes presentations, demonstrations, knowledge checks, and three hands-on labs that revolve around a use case story.

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### Target Audience:

This course is intended for: Newly hired cloud engineers On-premises IT engineers Cloud architects Cloud engineers Network engineers

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### Objectives:

- In this course, you will learn to:
  - Design a networking infrastructure for a scalable production application, considering design trade-offs between different networking services.
  - Configure networking services for a highly available, resilient, and scalable application.
  - Implement the networking infrastructure according to evolving business requirements.
  - Implement networking best practices to align towards AWS Well-Architected Framework.
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### Prerequisites:

We recommend that attendees of this course have:

- Basic knowledge of networking concepts
  - Basic knowledge of AWS services
  - Followed the courses AWS Technical Essentials or Cloud Practitioner Essentials
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## Content:

### Module 0: Course Introduction

- Introductions
- Course overview
- Use case introduction

### Module 1: Networking on AWS

- IP addressing
- Amazon Virtual Private Cloud (Amazon VPC) fundamentals
- Subnets
- Amazon VPC IP Address Manager (IPAM)
- Elastic Network Interfaces
- Elastic IP addressing
- Route table
- Internet and NAT gateways
- Basic traffic filtering mechanisms for a VPC
- Knowledge check

### Module 2: Load Balancing and Scaling on AWS

- Elastic Load Balancing (ELB)
- Cross-zone load balancing
- Auto Scaling group (ASG) basics
- Knowledge check
- Use case part one

### Module 3: VPC Interconnectivity and Content Delivery

- VPC interconnectivity
- VPC peering
- VPC Transit Gateway
- VPC endpoints
- Edge locations
- AWS Global Accelerator
- Knowledge check
- Use case part two

### Module 4: High Availability with Amazon Route 53

- Amazon Route 53
- Knowledge check
- Use case part three

### Module 5: Course Wrap-Up

- Course reflection
- Use case labs recap
- Use case conclusion
- Course feedback survey

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## Additional Information:

Course level: Intermediate

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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