Networking Essentials for Cloud Applications on AWS

Duration: 1 Day Course Code: GK910026 Delivery Method: Virtual Learning

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.

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.
- Course level: Intermediate
- Duration: 1 day

Updated August 2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

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

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.

Prerequisites:

We recommend that attendees of this course have:

- Basic knowledge of networking concepts
- Basic knowledge of AWS services
- AWS Technical Essentials or Cloud Practitioner Essentials

Testing and Certification

None

Follow-on-Courses:

- GK4503 - Cloud Operations on AWS (formerly Systems Operations)

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

Additional Information:

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

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

training@globalknowledge.ae

www.globalknowledge.com/en-ae/

Global Knowledge, Dubai Knowledge Village, Block 2A,First Floor, Office F68, Dubai, UAE