

# NETWORKING ESSENTIALS FOR CLOUD APPLICATIONS ON AWS

Course Code: 910026

This 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.

- Course level: Intermediate
- Duration: 1 day

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

## What You'll Learn

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.

## Who Needs to Attend

This course is intended for:

- Newly hired cloud engineers
- On-premises IT engineers
- Cloud architects
- Cloud engineers
- Network engineers

## 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

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CLASSROOM LIVE

\$695 USD

1 Day

## Classroom Live Outline

### 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

#### **Classroom Live Labs**

- Hands-on lab: Building a Multi-Availability Zone VPC Architecture
- Hands-on lab: Accelerating Performance with Amazon CloudFront
- Hands-on lab: Achieving Fault Tolerance and Global Traffic Optimization

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VIRTUAL CLASSROOM LIVE

\$695 USD

1 Day

## Virtual Classroom Live Outline

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- Introductions
- Course overview
- Use case introduction

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- IP addressing
- Amazon Virtual Private Cloud (Amazon VPC) fundamentals
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- Elastic Network Interfaces
- Elastic IP addressing
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- Basic traffic filtering mechanisms for a VPC
- Knowledge check

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

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- VPC interconnectivity
- VPC peering
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- 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

#### Virtual Classroom Live Labs

- Hands-on lab: Building a Multi-Availability Zone VPC Architecture
- Hands-on lab: Accelerating Performance with Amazon CloudFront
- Hands-on lab: Achieving Fault Tolerance and Global Traffic Optimization

Sep 18 - 18, 2026 | 8:30 AM - 4:30 PM EDT

Nov 23 - 23, 2026 | 8:30 AM - 4:30 PM EST

Jan 29 - 29, 2027 | 8:30 AM - 4:30 PM EST

Mar 22 - 22, 2027 | 8:30 AM - 4:30 PM EST

Apr 2 - 2, 2027 | 8:30 AM - 4:30 PM EST



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PRIVATE GROUP TRAINING

1 Day

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