



Networking Essentials for Cloud Applications on AWS (NECA)

ID NECA Price CHF 850.—(excl. VAT) Duration 1 day

Who should attend

This course is intended for:

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

Prerequisites

- · Basic knowledge of networking concepts
- Basic knowledge of AWS services
- Have taken either <u>AWS Technical Essentials (AWSE)</u> or AWS Cloud Practitioner Essentials (CP-ESS)

Course 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

Course 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
- Hands-on lab: Building a Multi-Availability Zone VPC Architecture

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
- Hands-on lab: Accelerating Performance with Amazon CloudFront

Module 4: High Availability with Amazon Route 53

- Amazon Route 53
- · Knowledge check
- Use case part three
- Hands-on lab: Achieving Fault Tolerance and Global Traffic Optimization

Module 5: Course Wrap-Up

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

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Training Centres worldwide





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