# Networking Essentials for Cloud Applications on AWS (NECA)

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

## 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 AWS Technical Essentials (AWSE) 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

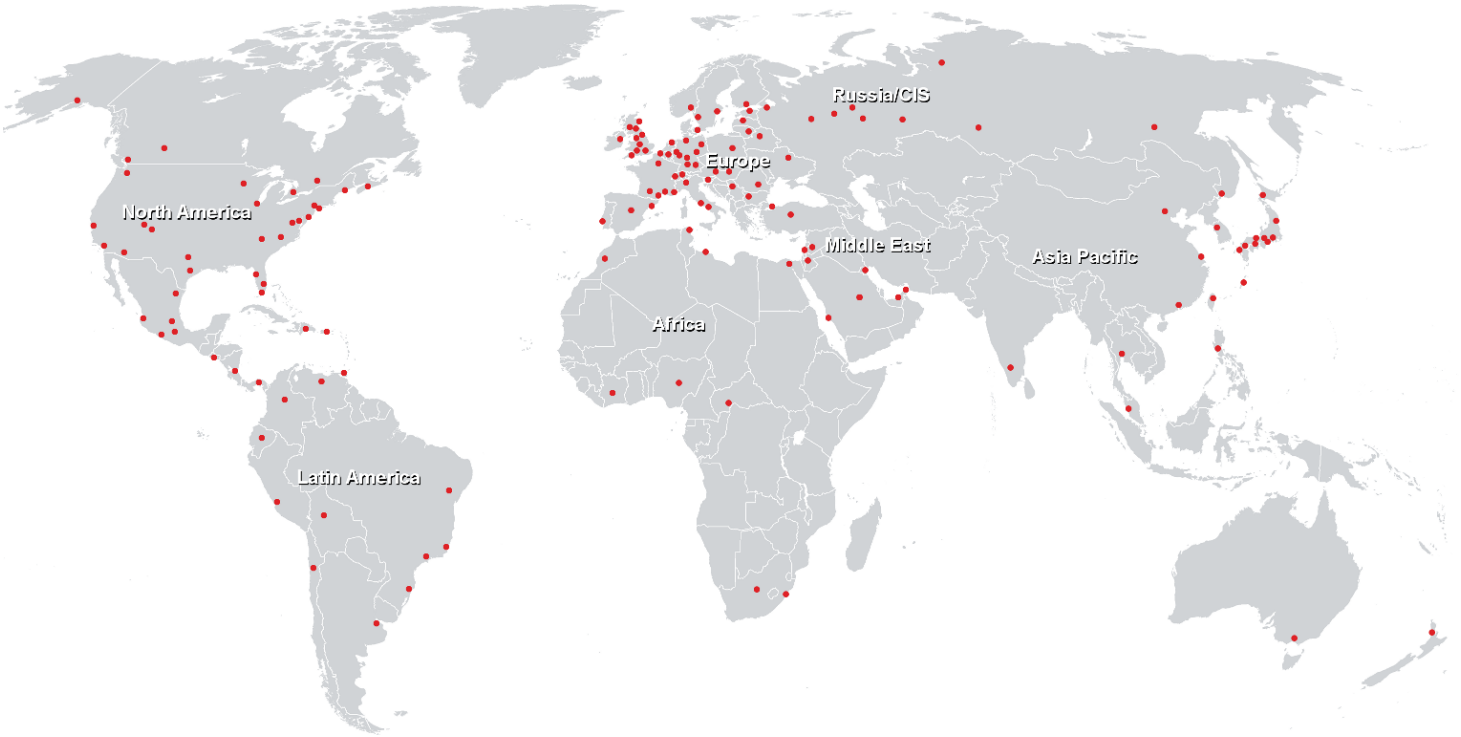
### Module 4: High Availability with Amazon Route 53

- 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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**Fast Lane Institute for Knowledge Transfer (Switzerland) AG**

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

**info@flane.ch, https://www.flane.ch**