Networking Essentials for Cloud Applications on AWS

Category: Cloud Platforms | **Vendor:** Amazon Web Services

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course 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.

About This Course

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

Who Should Attend

This course is intended for:

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

Prerequisites & Entry Requirements

General 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)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

Skills You Will 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

Frequently Asked Questions

Q: What delivery options are available for Networking Essentials for Cloud Applications on AWS?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Networking Essentials for Cloud Applications on AWS course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Networking Essentials for Cloud Applications on AWS training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Networking Essentials for Cloud Applications on AWS?

Yes, we provide corporate training, dedicated training, and closed classes for Networking Essentials for Cloud Applications on AWS. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Networking Essentials for Cloud Applications on AWS, AWS Essentials Training, NECA

Q: Why choose Nexus Human for Networking Essentials for Cloud Applications on AWS?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Networking Essentials for Cloud Applications on AWS training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 14/11/2026.