Training: AWS
Networking Essentials for Cloud Applications on AWS

TRAINING GOALS:

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.

Course objectives

In this course, you will:

- 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.

Intended audience

This course is intended for:

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

CONSPECT:

- Module 1: Networking on AWS
  - IP addressing
  - Amazon Virtual Private Cloud (Amazon VPC) fundamentals
  - Subnets
  - Amazon VPC IP Address Manager (IPAM)

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- 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

REQUIREMENTS:

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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

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by AWS (course completion).

TRAINER:

AWS Authorized Instructor (AAI)

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