

ANS-C01: AWS Advanced Networking, Part 3 of 9: Networking

page 1

Meet the expert: Zeal works primarily as a Cloud Security Consultant guiding organizations to re-build their infrastructure with security in mind. Zeal also holds more than 13+ certifications ranging from RedHat Certified Architect to AWS Security.

Prerequisites: AWS Cloud Practitioner or another Associate level AWS Certification
Minimum five years hands-on experience architecting and implementing network solutions

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Course description: The AWS Certified Advanced Networking - Specialty is intended for individuals who perform complex networking tasks. The user will be able to Design, develop, and deploy cloud-based solutions using AWS as well as maintain Network Architecture across all AWS services.

The exam certification tests on 4 knowledge domains.

Domain 1: Network Design 30%

Domain 2: Network Implementation 26%

Domain 3: Network Management and Operation 20%

Domain 4: Network Security, Compliance, and Governance 24%

This course covers: DHCP, Encapsulation, MTU, IP Addressing, Lambda@Edge, MPLS, Global Accelerator and Traffic Mirroring.

Course outline:

DHCP

- Introduction
- DHCP
- DHCP Option Sets
- Summary

Encapsulation

- Introduction
- Encapsulation
- TCP Protocol
- Summary

Understanding MTU

- Introduction
- Understanding MTU
- MSS
- IP Fragmentation
- Numeric Systems
- Decimal to Binary Conversion
- Summary

IPv4 addressing scheme

- Introduction
- IPv4 addressing scheme
- IPv6 - Basics
- IPv6 - VPC Infra - Part 01
- IPv6 - VPC Infra - Part02
- Summary

Egress Only IGW

- Introduction
- Egress Only IGW
- NW Requirement - WorkSpaces

- IP-Address-Reservation
- AWS Workspaces
- Summary

Lambda@Edge

- Introduction
- Lambda@Edge
- Lambda@Edge Practical Demo
- Connectivity Features of Lambda
- AppStream 2.0
- CORS
- Summary

MPLS

- Introduction
- MPLS
- VPC Peering
- VPC Peering Practical
- Resize Considerations in VPC
- Summary

AWS Global Accelerator

- Introduction
- AWS Global Accelerator
- Implementing Global Accelerator
- Summary

Traffic Mirroring Overview

- Introduction
- Traffic Mirroring Overview
- Traffic Mirroring Practical
- Summary

AWS Outposts

- Introduction

- AWS Outposts
- IPAM
- IPAM Practical
- Summary