# ANS-C01: AWS Advanced Networking, Part 7 of 9: Security Compliance and Optimization

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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 then 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: IAC, CloudFormation, Penetration testing, DOS Attacks, AWS Configuration, Security Groups, Prefix lists and Regaining Access.

#### Course outline:

#### IAC

- Introduction
- IAC
- CloudFormation Creating VPC
- CloudFormation Stack Depedencies
- CloudFormation DependsOn Attribute
- Summary

### CloudFormation

- Introduction
- CloudFormation Errors and Rollbacks
- CloudFormation Change Sets
- CloudFormation Parameters
- CloudFormation -StackSets.mp4
- · Elatic Beanstalk
- Summary

## **Penetration Testing**

- Introduction
- Penetration Testing in AWS
- CloudTrail
- CloudTrail Practical
- CloudTrail Event Types
- CloudTrail Log File Integrity Validation
- Summary

#### **AWS Configuration**

Introduction

- AWS Config NE
- AWS Config Practical NEW2
- Summary

#### **DOS Attack**

- Introduction
- DOS attack demo
- Mitigating DDOS
- NAČL
- NACL Rule Ordering
- Summary

## **Referencing Security Group**

- Introduction
- Referencing Security Group
- · Stateful vs Stateless Firewalls
- Network Firewall Overview
- Network Firewall Practical
- Summary

# **AWS Guard Duty**

- Introduction
- AWS Guard Duty
- Central Guard Duty Findings
- Active Directory Integration
- AWS Directory Service
- Domain Join EC2 with Simple AD
- Summary

#### **Prefix Lists**

Introduction

- Prefix Lists
- EC2 Instance Metadata

Summary

- AWS KMS CP
- S3 Encryption
- · S3 Bucket Policy
- Summary

# Regaining Access

- Introduction
- Regaining Access to Locked S3 Bucket
- Trusted Advisor
- Federation
- SAML
- Summary

## **AWS SSO**

- Introduction
- AWS SSO
- Implementing AWS SSO
- Summary

#### Benchmarking and Optimizing

- Introduction
- Network Interface Card Basics
- · Elastic Network Interface
- · Enhanced Networking
- Management Network
- QoS

