

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 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: 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 Dependencies
- CloudFormation - DependsOn Attribute
- Summary

CloudFormation

- Introduction
- CloudFormation - Errors and Rollbacks
- CloudFormation - Change Sets
- CloudFormation - Parameters
- CloudFormation - StackSets.mp4
- Elastic 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
- NACL
- 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
- 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

- Summary