

SCS-C01: AWS Certified Security Specialist, Part 3 of 6: Infrastructure and Security

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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: two years of hands-on experience securing AWS and 5 years or more in IT security experience designing and implementing security solutions.

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Course description: Amazon Web Services Certified Security Specialty is an exam intended to validate an individual's experience in a security role. This course covers Domain 3 Infrastructure Security which counts for 26% of the exam.

Course outline:

Bastion Host

- Introduction
- Bastion Host NE
- VPN
- AWS Client VPN
- Demo: ClientVPN
- Summary

Site to Site Tunnel

- Introduction
- Site to Site Tunnel
- VPC Peering
- Egress Only IGW
- VPC Endpoints
- Summary

Gateway VPC Endpoints

- Introduction
- Gateway VPC Endpoints
- VPC Endpoint Policies
- Summary

Interface Endpoints

- Introduction
- Interface Endpoints
- Demo: Interface Endpoints
- VPC Endpoint Policies
- Summary

Network ACL

- Introduction
- What is NACL
- NACL Rule Ordering
- Stateful vs Stateless Firewalls
- Summary

IDS and IPS in AWS

- Introduction
- IDS and IPS in AWS

- EBS-Architecture
- Intro to CDN
- Demo Cloudfront
- Summary

Edge Locations

- Introduction
- Edge Locations
- Demo: CloudFront
- CloudFront OAI
- CloudFront Signed URLs
- Field Level Encryption CloudFront
- Summary

DOS Attack

- Introduction
- DOS attack demo
- AWS Shield
- Mitigating DDoS
- Summary

Introduction to API

- Introduction
- Introduction to API
- How API works
- Building Function
- Building API with API Gateway
- Summary

Lambda and S3

- Introduction
- Lambda and S3
- EC2 Key-Pair Troubleshooting
- EC2 Tenancy
- AWS Artifact
- Summary

Lambda@Edge

- Introduction

- Lambda@Edge
- Demo: Lambda@Edge
- AWS Simple Email Service
- Summary

DNS Attributes in VPC

- Introduction
- DNS Support in VPC
- Route53 Query Logging
- Demo: Route53 Query Logging
- Summary

Step Function

- Introduction
- Step Function
- Network Firewall Overview
- Demo: Network Firewall
- Summary