ANS-C01: AWS Advanced Networking, Part 5 of 9: VPN and IPSec

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: Bastion Host, Site-to-site Tunnels, VPN Performance, BGP and High Availability.

Course outline:

Bastion Host
• Introduction
• Bastion Host NE
• VPN - Part 01
• AWS Client VPN
• ClientVPN - Practical
• Summary

Site to Site Tunnel
• Introduction
• Site to Site Tunnel NE
• VPN - VGW and CGW
• IPSec with Openswan - NEW (PE)
• IPSec with Openswan - Part 2
• Summary

VPN Performance
• Introduction
• VPN Performance
• NAT Gateways - Performance
• static routing
• Dynamic Routing
• Summary

BGP
• Introduction
• BGP
• Autonomous System
• BGP Path Selection Algorithms

• Direct Connect NE
• Virtual Interfaces
• Summary

Physical DX
• Introduction
• Phyiscal DX - AWS
• Phyiscal DX - Partner
• Dual DX Architecture
• DX Gateway
• Summary

High Availability Direct Connect
• Introduction
• HA of DX
• AWS CloudHub
• BGP Community
• Summary