

Aws certificate advanced networking specialty course ANS-C01

1. Networking Fundamentals:

- 1.1 Understanding OSI model
- 1.2 TCP/IP fundamentals
- 1.3 Subnetting and CIDR notation
- 1.4 Routing and switching concepts

2. Amazon VPC (Virtual Private Cloud):

- 2.1 VPC components and architecture
- 2.2 Creating and configuring VPCs
- 2.3 Subnet design and routing tables
- 2.4 Network ACLs and security groups

3. Direct Connect and VPNs:

- 3.1 Configuring Direct Connect
- 3.2 Setting up VPN connections
- 3.3 Hybrid network architectures



4.Route 53 (DNS Service):

- 4.1 DNS concepts
- 4.2 Route 53 routing policies
- 4.3 DNS failover and health checks

5.Security and Compliance:

- 5.1 Network security best practices
- 5.2 Identity and Access Management (IAM)
- 5.3 AWS Web Application Firewall (WAF)

6.Networking Monitoring and Troubleshooting:

- 6.1 AWS CloudWatch for network monitoring
- 6.2 Troubleshooting network issues
- 6.3 Network performance optimization

7.Load Balancing and Auto Scaling:

- 7.1 Elastic Load Balancing (ELB)
- 7.2 Auto Scaling groups
- 7.3 Application and network load balancing

8.Advanced Networking Services:

- 8.1 AWS Transit Gateway



8.2 VPC Peering

8.3 Global Accelerator

9. Content Delivery and CDN:

9.1 Amazon CloudFront

9.2 CDN architecture and benefits

10. Advanced Networking Concepts:

10.1 BGP (Border Gateway Protocol)

10.2 MPLS (Multiprotocol Label Switching)

10.3 IPsec VPNs

