

AWS Certified Advanced Networking – Specialty

Course Outline

Day 1

- **Module 1: Networking Concepts**
 - Overview of AWS networking
 - IP addressing and network design
 - Network topologies and architectures
 - AWS networking services
- **Module 2: AWS Networking Services**
 - Amazon VPC: Components and architecture
 - Elastic Load Balancing (ELB) and Amazon Route 53
 - AWS Direct Connect and VPN
 - AWS Transit Gateway and VPC Peering
- **Module 3: Network Security**
 - Security groups and Network ACLs (NACLs)
 - AWS Firewall Manager and AWS WAF
 - AWS Shield and AWS Security Hub
 - Implementing network encryption and protection
- **Hands-On Lab: Configuring Network Security**

Day 2

- **Module 4: Advanced Networking**
 - AWS Transit Gateway use cases and configurations
 - Inter-region VPC peering and VPN solutions
 - AWS Global Accelerator and Amazon CloudFront
 - PrivateLink and VPC endpoints
- **Module 5: Monitoring and Troubleshooting**
 - Amazon CloudWatch and VPC Flow Logs
 - Network performance monitoring and optimization
 - Troubleshooting network issues with AWS tools
 - Log analysis and incident response
- **Hands-On Lab: Implementing Advanced Networking Solutions**

Day 3

- **Module 6: Hybrid Networking and Connectivity**
 - Hybrid cloud architectures and best practices
 - Connecting on-premises networks to AWS
 - Direct Connect configurations and optimization

- Managing hybrid environments and traffic flows
- **Module 7: Best Practices and Design Patterns**
 - High availability and disaster recovery
 - Network design considerations and scalability
 - Cost management and optimization
 - Designing for performance and compliance
- **Hands-On Lab: Designing and Implementing Hybrid Networking**

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