AWS Certified Advanced Networking - Specialty

Content

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**