

AWS Certified Advanced Networking - Specialty (ANS-C01)

This expert AWS Certified Advanced Networking - Specialty (ANS-C01) training prepares cloud infrastructure engineers to design, implement, manage, and secure AWS and hybrid network architectures at scale and in accordance with AWS networking best practices. This ANS-C01 exam prep will help you earn your AWS certification in advanced networking, which represents highly developed skills configuring cloud networks run entirely in AWS or hybrid environments.

[CBT Nuggets course material](#) →

WEEK 1

Create Site-to-Site VPNs

154 min.

Understand VPN Fundamentals	8
IPSec Phases	5
HAGLE	8
Prepping a Lab	9
Deploy the Gateways	6
Create the S2S Connection	6
Wrap Up the Tunnel Connection On Your Side (Azure)	10
CHALLENGE	2

IaaS Load Balancing in AWS

Introducing AWS Load Balancing	1
Understand Load Balancing Concepts in AWS	13
Scaffold a Basic Web Server Lab	9
Implement Elastic Load Balancers	9
Implement Application Load Balancers	9
Scaling Concepts	8
CHALLENGE	3

Domain Name Services on AWS

Skill Introduction	1
DNS Refresher and Route 53 Terms	6
Transferring a Domain into Route 53	5
Hosted Zones and DNS Records	9
Route 53 Routing Policies	13
Route 53 Resolver and Other DNS Options	4
Route 53 DNS Firewall	3
Validation: DNS Services on AWS	7

WEEK 2

Content Delivery Deep Dive

154 min.

Skill Introduction	1
AWS Content Delivery Strategies	9
Amazon CloudFront with S3 Origin	13
Amazon CloudFront with Streaming Media	6
Elastic IP and Global Accelerator	9
Conditional Content Delivery	9
Validation Challenge: Regional Websites	17

Implement Transit Gateway

Introducing Transit Gateway	1
Understand Transit Gateway Design	10
Isolated Routing Concepts	6
Stand Up a Lab	5
Deploy a Transit Gateway	8
Explore the Default Route Table	2
Create a Custom Route Table	7
CHALLENGE	4

Network Logging and Monitoring

Skill Introduction	1
AWS Logging on Monitoring	1

Automate Deployments with CloudFormation Templates

Introducing Infrastructure as Code	1
The Point of IaC	12
Scaffold a Basic VPC	14
Deploy from the Template	6

Add Subnets and Routes	7
Deploy, Troubleshoot, and Verify	5

WEEK 3

152 min.

CHALLENGE	9
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Optimize Network Traffic throughout VPCs

Introducing Network Optimization	1
Network Measurement Basics	10
MTUs and Jumbo Frames in AWS	7
Explore MTUs on an AWS EC2 Instance	8
Deploy with Enhanced Networking	7
Elastic Fabric Adapter (EFA)	3
EBS-Optimized Instances	4
Bandwidth Limits	4
CHALLENGE	5

Multi-Account Networking

Skill Introduction	1
AWS Multiple Account Strategies	11
VPC Connectivity Among Accounts	8
Availability Zone Labeling	4
AWS Organizations	5
AWS Resource Access Manager	13
Validation Challenge: Overlapping IP Ranges	23

Private Connectivity

Introducing Private Connectivity in VPCs	1
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Private Connectivity Fundamentals	9
Stand Up a Lab	8
Establish the Peering Connection	6
Update the Route Tables	5

WEEK 4

161 min.

Private Endpoint Fundamentals	4
Deploy Private Endpoints	7
CHALLENGE	8

Publish Private Services via PrivateLink

Introducing PrivateLink Endpoint Services	1
Understand Endpoint Services Concepts	8
VPC Peering vs PrivateLink	7
Deploy the Service VPC	10
Deploy the Customer VPC	3
Create an Endpoint Service	5
Create a Private Endpoint	6
CHALLENGE	6

Implement AWS Client VPN

Introducing Point to Site VPNs	1
Point to Site VPNs in AWS	12
Initialize the PKI	11
Deploy the Client VPN Endpoint	6
Download and Edit the VPN Config	4
Create a VPN Profile	1
Establish Full Tunnel Connectivity	3

Implement Split Tunnel Connectivity	2
CHALLENGE	5

DirectConnect Fundamentals

Introducing DirectConnect	1
The Basic DX Architecture	8
VIFs	5
Connection Types	11
Scaling Considerations	4
BGP Considerations	11
Deploying from the Console	11

WEEK 5

68 min.

CHALLENGE	5
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AWS Firewall Solutions

Introducing AWS Firewall Services	1
Security Groups and Network ACLs	6
Web Application Firewall Fundamentals	7
Implement and Test a Web Application Firewall	15
AWS Network Firewall Fundamentals	8
Implement and Test AWS Network Firewall	18
AWS Shield	5
CHALLENGE	3