GENERAL

aws certified advanced networking specialty

Published: September 19, 2026 | Index ID: #-

Introduction

In today's digital landscape, cloud networking is no longer a niche skill—it's a cornerstone of scalable, secure, and high performance IT infrastructures. Among the many certifications offered by Amazon Web Services (AWS), the **AWS Certified Advanced Networking – Specialty**stands out as a testament to mastery over complex network designs, hybrid architectures, and cutting edge security practices. Whether you're a seasoned network engineer looking to validate your expertise, a systems architect seeking deeper cloud integration, or a career transitioning professional aiming to break into the cloud domain, this certification can open doors to advanced roles and higher earning potential.

In this comprehensive guide, we'll walk you through everything you need to know—from exam structure and core topics to study resources and career benefits. By the end, you'll have a clear roadmap to pursue the **AWS Certified Advanced Networking – Specialty** and a realistic sense of what it takes to succeed.

What is the AWS Certified Advanced Networking – Specialty?

The **Advanced Networking – Specialty**certification is designed for individuals who perform complex networking tasks in the AWS cloud. It validates the ability to design, implement, and troubleshoot network solutions that span multiple accounts, regions, and on premises environments. Candidates should have a strong grasp of advanced networking concepts, AWS networking services, and the ability to apply best practices for security, high availability, and performance.

Why Pursue This Certification?

There are several compelling reasons to earn the **Advanced Networking – Specialty** credential:

- Career Advancement – Demonstrates deep expertise, often leading to senior network engineer, solutions architect, or cloud networking lead roles.
- Higher Compensation – Professionals with specialty certifications typically command 10–20% higher salaries compared to non certified peers.
- **Industry Recognition** – Validates your knowledge against a globally recognized benchmark.
- **Competitive Edge** – Sets you apart in a market where cloud networking is a high demand skill.
- **Continued Learning** – Encourages staying current with AWS's rapidly evolving networking services.

Exam Overview: Format & Domains

The exam is a multiple choice, multiple answer assessment delivered online. It consists of 65 questions to be completed in 170 minutes. The questions cover the following domains, each weighted according to its importance:

1. Design and Implement AWS Networking Solutions (25%)
2. Advanced Network Architectures (20%)
3. Security and Compliance (25%)
4. Troubleshooting and Optimization (30%)

Passing the exam requires a score of at least 750 out of 1000. The certification is valid for three years, after which you'll need to recertify to maintain its status.

Core Topics Covered

Design and Implement AWS Networking Solutions

This domain tests your ability to design VPCs, subnets, routing tables, and VPN connections that meet business requirements. You'll need to understand:

- VPC architecture and IP addressing strategies.
- Inter VPC connectivity via VPC peering, AWS Transit Gateway, and PrivateLink.
- Hybrid connectivity options, including Direct Connect and VPN.
- Network segmentation using security groups, NACLs, and route tables.

Advanced Network Architectures

Here, the focus shifts to scaling and resilience. Expect questions on:

- Multi region and multi account deployments.
- High availability design patterns.
- Zero trust networking and service mesh concepts.
- Load balancing at the network layer using Elastic Load Balancing and Application Load Balancer.

Security and Compliance

Security is paramount. You'll be evaluated on:

- Implementing encryption for data at rest and in transit.
- Using IAM, AWS Organizations, and SCPs to enforce security boundaries.
- Integrating with AWS security services like GuardDuty, Macie, and Security Hub.
- Compliance frameworks (HIPAA, PCI DSS, GDPR) and how AWS supports them.

Troubleshooting and Optimization

Real world scenarios test your diagnostic skills. Topics include:

- Analyzing VPC flow logs and CloudWatch metrics.
- Identifying bottlenecks and latency issues.
- Optimizing routing and bandwidth allocation.
- Implementing automated remediation with AWS Systems Manager.

Prerequisites and Recommended Experience

While AWS does not require formal prerequisites, the certification assumes:

- At least two years of hands on experience with AWS networking services.
- Strong understanding of networking fundamentals (TCP/IP, routing, subnets, DNS).
- Experience designing and troubleshooting hybrid architectures.
- Knowledge of security best practices and compliance requirements.

Professionals holding the **AWS Certified Solutions Architect – Associate** or **Networking – Associate** certifications often find the transition smoother, as many foundational concepts overlap.

Study Resources

Official AWS Training

AWS offers instructor led and digital courses tailored to the Advanced Networking exam. The **Architecting Advanced Networking on AWS** course covers the exam domains in depth and includes labs for hands on practice.

Online Courses

Platforms like A Cloud Guru, Linux Academy, and Udemy host specialized courses that align with the exam blueprint. Look for courses that provide:

- Video lessons covering each domain.
- Hands on labs and real world scenarios.
- Practice quizzes and mock exams.

Hands On Labs

Practical experience is key. Use the AWS Free Tier to build a VPC, set up Direct Connect, and experiment with Transit Gateway. Labs on **AWS Skill Builder** and **Qwiklabs** also offer guided exercises.

Study Guides & Books

While not mandatory, comprehensive guides can provide structured learning. Consider titles such as:

- AWS Certified Advanced Networking Specialty Exam Guide by Ryan Smith.
- Mastering AWS Networking by Alex St. John.

Practice Exams

Simulated exams help gauge readiness. AWS offers an official practice test, and third party providers offer additional mock exams with detailed explanations.

Exam Preparation Strategy

Build a Study Plan

Allocate 8–12 weeks, dedicating 10–12 hours weekly. Break down the plan into:

- Week 1–3: Core concepts and foundational labs.
- Week 4–6: Advanced architectures and security.
- Week 7–8: Troubleshooting scenarios.
- Week 9–10: Review, mock exams, and weak area focus.

Hands On Practice

Apply what you learn by building real networks. For example, create a multi region VPC with Transit Gateway and implement a hybrid VPN. Document your setup and troubleshoot any issues—this mirrors exam scenarios.

Use Flashcards

Create digital flashcards for key terms (e.g., *Transit Gateway*, *VPC Peering*, *Security Group vs. NACL*) and review them daily. Tools like Anki or Quizlet can automate spaced repetition.

Join Study Groups

Collaborate with peers in online forums (AWS re:Post, Reddit's r/aws) or local meetups. Discussing concepts reinforces understanding and exposes you to diverse problem solving approaches.

Mock Exams

Take at least three full length mock exams before the real test. Analyze each result to identify persistent gaps and

adjust your study plan accordingly.

Tips for Success

- Understand the exam objectives—they're the roadmap for what you need to learn.
- Focus on architecture patterns rather than memorizing every service feature.
- Read AWS whitepapers and documentation—many exam questions reference official docs.
- Keep up with service updates—AWS frequently adds features that could be exam relevant.
- During the exam, read questions thoroughly; many are designed to trip up candidates who skim.

Common Mistakes to Avoid

- Overreliance on memorization—focus on understanding concepts.
- Ignoring security best practices—security is a core exam domain.
- Neglecting hands on labs—practical experience is irreplaceable.
- Underestimating the exam's time management—practice pacing to avoid rushing.
- Skipping the review phase—revisit weak topics before the final mock test.

Career Opportunities & ROI

Roles & Titles

Certified professionals often land positions such as:

- Senior Cloud Network Engineer
- Solutions Architect – Networking
- Cloud Infrastructure Lead
- Network Security Architect
- Hybrid Cloud Engineer

Salary Insights

According to recent salary surveys, individuals with the **Advanced Networking – Specialty**certification earn between $120,000 and $180,000 annually in the U.S., depending on location, experience, and industry.

Market Demand

With the shift to multi cloud and hybrid environments, enterprises increasingly seek experts who can design resilient, secure, and cost effective networking solutions. The demand for AWS networking specialists is projected to grow 25% over the next five years.

Frequently Asked Questions

What is the exam cost?

The exam fee is $300 (USD) for the initial attempt. Prices may vary by region; check the AWS Certification website for the latest rates.

How long is the exam?

You have 170 minutes (2 hours 50 minutes) to complete 65 questions.

How to register?

Register through the AWS Certification portal. Choose a testing center or opt for online proctored testing.

Validity period?

The certification is valid for three years. After expiration, you must retake the exam or complete an approved recertification path.

How to retake?

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