

# AWS Certified Security – Specialty (SCS-C03)

Prepare for the AWS Certified Security – Specialty (SCS-C03) certification with expert-led training. Learn to secure AWS environments by managing access controls with IAM Roles Anywhere, protecting data through Amazon Security Lake, and responding to threats using Amazon CodeGuru Security. In this course, you'll cover securing GenAI applications and leveraging Amazon Q Developer alongside advanced networking like AWS Verified Access and Layer 3-7 firewall rules. This course covers essential tools and techniques, including AWS Verified Permissions, to safeguard cloud systems and make you stand out as a candidate for cloud security roles. This AWS training is ideal for cloud administrators and teams looking to enhance security skills or onboard new team members.

[CBT Nuggets course material](#) →

 STUDY PLAN

## WEEK 1

### Course Introduction and Getting Started

- Certification Information
- Course Expectations
- Creating our AWS Account
- Applying MFA to our Root User
- Creating an IAM User
- Enabling CloudTrail
- Set up a Budget Alert
- Validation

### AWS Security Approach and Best Practices

- Skill Introduction
- AWS Well-Architected Framework
- Shared Responsibility Model
- Governance and Compliance
- Security Pillar and AWS Well-Architected Tool
- AWS Artifact
- Trusted Advisor
- Validation

### Identity and Access Management Basics

- AWS Identity and Access Management
- IAM Policies
- IAM Policy Anatomy
- Identity Policies and Resource Policies
- Crafting Our First Policies
- Policy Creation in the AWS Console
- Policy Simulator

## WEEK 2

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Validation

### **Advanced Access Controls and Policies**

Skill Introduction

Session Policies

Service Control Policies and Resource Control Policies

Access Control Lists

Attribute-Based Access Control

Policy Evaluation Logic

IAM Cautionary Tales

IAM Roles Anywhere

Validation Challenge

Validation Challenge Walkthrough

### **AWS CloudTrail and CloudWatch**

Skill Introduction

Primary AWS Logging Services

AWS CloudTrail

CloudTrail to CloudWatch Integration

Configuring a CloudWatch Metric

Setting up an SNS Topic

Creating a CloudWatch Alarm

Testing Everything Together

Teardown

Data Masking within CloudWatch Logs

Validation

## **AWS Organizations**

Skill Introduction

Why Multiple Accounts?

AWS Organizations and IAM Identity Center

Setting up IAM Identity Center

Creating an AWS Organization

## WEEK 3

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Using IAM Identity Center for Account Access

Validation

### **Multi-Account Management and Security Strategies**

Skill Introduction

SCPs in Action

Tagging Policies

Resource Access Manager

AWS Control Tower

Validation

### **Introduction to Network Security**

AWS Global Network and VPCs

Creating VPCs and Subnets

NACLs and Security Groups

In Practice

Internet Access Options

Adding Internet Access to Our VPC

Teardown

Validation

## Advanced Networking and Edge Controls

Skill Introduction

VPC to VPC Connectivity

VPC to Network Connectivity

Network Protection Services

### WEEK 4

AWS Verified Access

Network Telemetry Services

Walkthrough

Reachability Analyzer and Network Access Analyzer

Honeypot Results

Validation

## Data Encryption on AWS

Skill Introduction

Shared Responsibility Model and Data Classification

Common Encryption Concepts

AWS Encryption Services

Introducing Project Nextcloud

AWS Key Management Service

Building Our VPC and EFS Share

Validation

## Operations Management on AWS

Skill Introduction

Project Nextcloud Recap

Systems Manager and Secrets Manager

RDS Deployment

Systems Manager Setup

EC2 Deployment

Installing Prerequisite Software with Systems Manager

Validation

## Domain and Certificate Management

Skill Introduction

Project Nextcloud Review

Fixing our EFS Mount

### WEEK 5

Route 53 Domain Management

Installing Nextcloud

Taking Nextcloud Private

Certificate Manager and Load Balancers

Teardown

Validation

## Configuration Management and Monitoring

Skill Introduction

Configuration Management on AWS

AWS CloudFormation

Hands-On with CloudFormation

AWS Config

Patch Manager

Validation

## Zero Trust Architectures on AWS

Skill Introduction

Zero Trust Architectures  
AWS Services and Zero Trust  
Setting Up Cognito  
Create the Lambda Function  
Build the API Gateway

## WEEK 6

Testing Everything Out  
Teardown  
Amazon Verified Permissions  
Validation

### **Threat Protection with CloudFront and WAF**

Skill Introduction  
Recap and Architecture Overview  
S3 Image Repository  
CloudFront Distribution  
CloudFront Keys for URL Signing  
Lambda Updates  
Testing It Out  
Implementing Web Application Firewall  
Teardown  
Validation

### **Threat Detection and Analysis**

Skill Introduction  
Setting Up Our Test Platforms  
Amazon GuardDuty

Amazon Inspector  
Amazon Detective  
AWS Security Hub  
Simulating Bad Stuff  
Teardown  
Validation