

AWS Certified CloudOps Engineer - Associate (SOA-C03)

This AWS Certified CloudOps Engineer - Associate (COA-C03) training course prepares you to manage and scale cloud environments like a modern operations professional. Designed for IT team members who need to move beyond manual administration, this course focuses on high-level automation and observability. You'll learn the deployment of infrastructure via CDK templates, secure hybrid environments with IAM Roles Anywhere, and maintain visibility through advanced CloudWatch and EKS/ECS metric collection. By the end of this course, you'll have the technical skills to manage complex cloud initiatives, and the knowledge required to pass the COA-C03 exam and earn your CloudOps certification. Start training now with unlimited practice exams and expert guidance.

[CBT Nuggets course material](#) →



WEEK 1

AWS Account Creation

- Creating an AWS Account
- Enabling Multi-Factor Authentication on the Root Account
- Creating a non-Root User
- Enabling CloudTrail
- Creating a Billing Alarm
- Summary and Validation

Building Networks on AWS

- Skill Introduction
- Introduction to AWS VPCs
- Creating VPCs and Subnets
- Adding an Internet Gateway to our Network
- Exploring More VPC Options and Architectures
- Securing our VPC with NACLs and Security Groups
- Validation Challenge
- Summary

Domain Name Services on AWS

- Skill Introduction
- Domain Name Service Basics
- Route 53 Name Registration and Transfer
- Route 53 Hosted Zones and Records
- Routing Policies

WEEK 2

- Route 53 Resolver
- Route 53 Query Logging

Validation - Route 53

Content Delivery

Skill Introduction

S3 Static Hosting

Amazon CloudFront

Advanced CloudFront Methods

AWS Certification Manager and Custom Domains

Validation Challenge

Storage Options on AWS

Skill Introduction

AWS Elastic Block Store

Amazon Simple Storage Service (S3)

Amazon Elastic File System

Amazon Glacier

High Performance Storage Options

Validation

Data Migration and Transfer

Skill Introduction

AWS Storage Gateway

Walk-through

AWS DataSync

AWS Transfer Family

AWS Snow Family

Validation

WEEK 3

Amazon Elastic Cloud Compute (EC2)

Skill Introduction

EC2 Instance Types

Segmentation Options

Reserved and Spot Instances

EC2 Instance Add-ons

EC2 Linux Server Creation

Creating an AMI

EC2 Windows Server Creation

Spot Instance Pricing

Validation

AWS Systems Manager

Skill Introduction

Installing the AWS CLI

AWS Systems Manager Overview

Setting up Systems Manager

Patch Manager

Systems Inventory and Run Command

Automation

Validation Challenge

AWS CloudFormation and the CDK

Skill Introduction

AWS CloudFormation Overview

Setting Up Our Code Environment

Hello CloudFormation

WEEK 4

More Advanced Templates
Change Sets and Drift Detection
StackSets
The AWS Cloud Development Kit
Validation

AWS Network Connectivity

VPC to VPC Options
On-Premises to VPC Options
Global Accelerator
WAF, Network Firewall and Shield
VPC Flow Logs
Route 53 Resolver Firewall
Firewall Manager
Traffic Mirroring
Validation

AWS Database Options

Skill Introduction
Amazon RDS
Amazon Aurora
Amazon DynamoDB
Amazon ElastiCache
Special Purpose Data Stores
Testing Aurora's Fail-over Capabilities
Validation

Deploying Nextcloud on AWS

Skill Introduction

Architecture Walk-through
VPC Setup
Creating the Elastic File System
Creating the Database
Creating the EC2 Server
Installing Nextcloud

WEEK 5

Moving to a Private Subnet
Adding the Load Balancer
Clean-Up

AWS IAM Basics

IAM Components
IAM Policies
IAM Policy Creation
IAM Policy Simulator
IAM Console Walk-through
Setup IAM Identity Center
IAM Roles Anywhere
Validation

Resiliency with AWS

Skill Introduction
Workload Resiliency Concepts
Resiliency Architectures
Data Lifecycle Manager and AWS Backup
Other Resilience Resources
Validation

Scalability on AWS

Skill Introduction

Types of Scaling

Loosely Coupled Architectures

Other Serverless Options

AWS Lambda (Not So Deep) Dive

WEEK 6

Auto Scaling Policies

Elastic Load Balancers

Walk-Through

Validation

Deployment Options on AWS

Skill Introduction

Deployment Scenarios

Continuous Integration & Continuous Deployment

AWS Deployment Platforms

EC2 Image Builder

Potential Deployment Issues

Validation Challenge - Blue/Green Deployments

Monitoring and Observability on AWS

Skill Introduction

Monitoring Concepts

AWS CloudTrail

Amazon CloudWatch

AWS Config

Walk-Through

Cluster Monitoring with ECS and the CloudWatch Agent

Validation

Multi-Account Management

Skill Introduction

Account Strategies

Cross-Account IAM Roles

WEEK 7

AWS Organizations

Service Control Policies

AWS Control Tower

Walk-through

Validation

Cost Management on AWS

Skill Introduction

Cloud Cost Concepts

Savings Plans and Reserved Instances

Trusted Advisor, Compute Optimizer and Cost Explorer

Walk-through

Validation

Data Protection on AWS

Skill Introduction

Data Security Concepts

Encryption on AWS

Secrets Manager and Parameter Store

Amazon Detective, GuardDuty, Inspector and Security Hub

Walk-through

Honeypot Results

Validation