



Cloud Operations on AWS

**(AWS Certified SysOps Administrator – Associate
(SOA-C02)**

Course Overview

This Cloud Operations on AWS (AWS Certified SysOps Administrator – Associate (SOA-C02)) course from CloudThat is ideal for systems operators and anyone wanting to learn how to deploy, manage, and operate workloads on AWS. In addition, by attending this Cloud Operations on AWS (AWS Certified SysOps Administrator – Associate (SOA-C02)) training, candidates also learn how to automate, secure, monitor, maintain and troubleshoot networks, systems, and services running on AWS to support business applications.

The Cloud Operations on AWS (AWS Certified SysOps Administrator – Associate (SOA-C02)) course also offers candidates an understanding of specific AWS features, tools, and best practices related to these functions. This Course includes instructor presentations, hands-on labs, demonstrations, and group knowledge checks.

Key Features

- Our AWS SysOps Certification training modules have 50% – 60% hands-on lab sessions to encourage Thinking-Based Learning (TBL).
- Interactive-rich virtual and face-to-face classroom teaching to inculcate Problem-Based Learning (PBL).
- AWS certified instructor-led training and mentoring sessions to develop Competency-Based Learning (CBL).
- Well-structured use-cases to simulate challenges encountered in a Real-World environment.
- Being an authorized AWS Training Partner gives us an edge over competition.
- Integrated teaching assistance and support through experts designed Learning Management System (LMS) and ExamReady platform.

Who Should Attend?

- System administrators and operators who are operating in the AWS Cloud
- Informational technology workers who want to increase their system operations knowledge.

Prerequisites

We recommend that attendees of this AWS SysOps certification exam course have the following prerequisites:

- General IT business knowledge
- General IT technical knowledge
- Familiarity with general networking concepts
- Basic knowledge of common data center architectures and components (servers, networking, databases, applications, and so on)
- Familiarity with cloud computing concepts
- AWS Technical Essentials course (classroom or digital)
- Background in either software development or systems administration
- Proficiency in maintaining operating systems at the command line, such as shell scripting in Linux environments or cmd/PowerShell in Windows

Course Modules

Module 1 Introduction to Cloud Operations on AWS

- Cloud operations
- AWS Well-Architected Framework
- AWS Well-Architected Tool

Module 2 Access Management

- **AWS Identity and Access management**
- **Resources, accounts, and AWS Organizations**

Module 3 System Discovery

- Methods to interact with AWS services
- Tools for automating resource discovery
- Inventory with AWS Systems Manager and AWS Config
- Troubleshooting scenario
- Hands-On Lab: Auditing AWS Resources with AWS Systems Manager and AWS Config

Module 4 Deploy and Update Resources

- CloudOps in deployment
- Developing a tagging strategy
- Deploying using AMIs
- Multi-account deployment using AWS Control Tower
- Troubleshooting scenario

Module 5 Automate Resource Deployment

- Deployment using AWS CloudFormation
- Deployment using AWS Service Catalog
- Deployment using AWS Service Catalog
- Hands-On Lab: Infrastructure as Code

Module 6 Manage Resources

- AWS Systems Manager
- Troubleshooting scenario
- Hands-On Lab: Operations as Code

Module 7 Configure Highly Available Systems

- Distributing traffic with Elastic Load Balancing
- Amazon Route 53
- Troubleshooting scenario

Module 8 Automate Scaling

- Scaling with AWS Auto Scaling
- Scaling with Spot Instances
- Managing licenses with AWS License Manager
- Troubleshooting scenario

Module 9 Monitor and Maintain System Health

- Monitoring and maintaining healthy workloads
- Monitoring AWS infrastructure
- Monitoring applications
- Troubleshooting scenario
- Hands-On Lab: Monitoring Applications and Infrastructure

Module 10 Data Security and System Auditing

- Maintaining a strong identity and access foundation
- Implementing detection mechanisms
- Automating incident remediation
- Troubleshooting scenario

Module 11 Operate Secure and Resilient Networks

- Building a secure Amazon Virtual Private Cloud (Amazon VPC)
- Networking beyond the VPC
- Securing your network communications with ACM
- Troubleshooting scenario

Module 12 Mountable Storage

- Configuring Amazon Elastic Block Storage (Amazon EBS)
- Sizing Amazon EBS volumes for performance
- Using Amazon EBS snapshots
- Using Amazon Data Lifecycle Manager to manage your AWS resources
- Creating backup and data recovery plans
- Configuring shared file system storage
- Troubleshooting scenario
- Hands-on Lab: Automating with AWS Backup for archiving and recovery

Module 13 Object Storage

- Object Storage
- Managing storage lifecycles on Amazon S3

Module 14 Cost Reporting, Alerts, and Optimization

- Gaining AWS cost awareness
- Using control mechanisms for cost management
- Optimizing your AWS spend and usage
- Hands-On Lab: Capstone lab for CloudOps

About CloudThat

Founded in 2012, CloudThat is an award-winning company and the first in India to offer cloud training and consulting services for mid-market and enterprise clients worldwide. Recently, it became the first Indian company to win consecutive AWS Training Partner of the Year (APJ) Awards and the Microsoft Training Services Partner of the Year Award. These achievements represent its 11th award in 8 years. Notably, 20 of CloudThat's Microsoft trainers feature in Microsoft's Top 100 MCTs Global List for 2025, underscoring its global excellence in training.

A pioneer in the cloud domain, CloudThat specializes in Cloud Migration, Data Platforms, DevOps, IoT, and cutting-edge technologies like Gen AI & AI/ML. As a Microsoft Solutions Partner, AWS Advanced Tier Training Partner, and Google Cloud Platform Partner, CloudThat has trained 850k+ professionals across 600+ cloud certifications and supported 500+ consulting projects for 250+ corporates in 30+ countries. These achievements highlight CloudThat's commitment to empowering professionals to advance their skills and careers

Our Success Track

13+ Years of Experience	200+ Corporates served	30+ countries catered
850K+ Professionals trained	500+ Projects delivered	600+ Cloud certifications

To know more about our cloud certification training, email at sales@cloudthat.com or call us at **+918880002200**.