

Cloud Operations on AWS

Course AWS-06

3 Days

Instructor-led, Hands on

Course Information

According to Amazon, millions of active customers use AWS every month—and demand is growing for professionals who can support, automate, and manage those deployments. The Cloud Operations on AWS course is designed for system administrators, operations professionals, and those seeking to become AWS Certified SysOps Administrators. Through expert-led AWS training and hands-on labs, you'll learn how to use AWS services to configure, deploy, monitor, and troubleshoot systems in the AWS cloud. This course blends theory with practice, helping you understand how to automate repeatable deployments, maintain an AWS cloud environment, and manage access to AWS resources using IAM and AWS Systems Manager.

At Course Completion

This course prepares you to deploy and maintain systems on AWS with efficiency and confidence. You'll gain the skills needed to automate cloud operations, configure and monitor systems using AWS Systems Manager, and maintain an inventory of in-use AWS resources. Key topics include managing access to AWS resources using IAM, implementing repeatable deployments with AWS CloudFormation, and supporting the different phases of operational excellence through best practices and tools like Amazon VPC, Auto Scaling, and AWS Config. You'll walk away with the knowledge required to maintain an AWS cloud environment and prepare for the AWS Certified SysOps Administrator exam.

Prerequisites

We recommend that attendees of this course have:

- Successfully completed the AWS Technical Essentials course
- 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
- Basic knowledge of networking protocols (TCP/IP, HTTP)

Course Outline

Module 1: Introduction to Cloud Operations on AWS

Understanding Cloud Operations in the AWS environment

Overview of the AWS Well-Architected Framework

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



Using the AWS Well-Architected Tool

Module 2: Access Management

Managing access with AWS Identity and Access Management (IAM)

Working with AWS accounts, resources, and AWS Organizations

Module 3: System Discovery

Interacting with AWS services through various interfaces

Automating resource discovery with AWS tools

Using AWS Systems Manager and AWS Config for inventory

Hands-On Lab: Auditing AWS Resources with Systems Manager and AWS Config

Module 4: Deploy and Update Resources

Deployment strategies in Cloud Operations

Tagging and resource organization strategies

Deploying with Amazon Machine Images (AMIs)

Deploying using AWS Control Tower

Module 5: Automate Resource Deployment

Automating deployments with AWS CloudFormation

Using AWS Service Catalog for repeatable deployments

Hands-On Lab: Infrastructure as Code

Module 6: Manage Resources

Managing operations with AWS