



Cloud Operations on AWS

- 5 Days
- Lecture and Hands-on Labs

Course Overview

This course is designed to teach those in a systems administrator or Development Operations (DevOps) role how to create automatable and repeatable deployments of networks and systems on the AWS platform. The course covers the specific AWS features and tools related to configuration and deployment, in addition to best practices for configuring and deploying systems.

Review this course online at https://www.alta3.com/courses/sysops

Who Should Attend

- System administrators and operators using AWS Cloud
- IT professionals seeking to enhance their AWS operations skills
- DevOps practitioners aiming for automated cloud deployments

What You'll Learn

- Recognize AWS services supporting Operational Excellence.
- Manage access and resource inventory using IAM, Systems Manager, and AWS Config.
- Automate deployments with AWS CloudFormation and Service Catalog.
- Deploy highly available systems with Route 53 and Elastic Load Balancing.

Outline

Module 1: Introduction to Cloud Operations on AWS

- 1. What is Cloud Operations
- 2. AWS Well-Architected Framework
- 3. AWS Well-Architected Tool #### Module 2: Access Management
- 4. AWS Identity and Access Management (IAM)
- 5. Resources, accounts, and AWS Organizations #### Module 3: System Discovery
- 6. Methods to interact with AWS services
- 7. Tools for automating resource discovery
- 8. Inventory with AWS Systems Manager and AWS Config #### Module 11: Operate Secure and Resilient Networks
- 9. Building a secure Amazon Virtual Private Cloud (Amazon VPC)
- 10. Networking beyond the VPC #### Module 12: Mountable Storage
- 11. Configuring Amazon Elastic Block Store (Amazon EBS)
- 12. Sizing Amazon EBS volumes for performance
- 13. Using Amazon EBS snapshots
- 14. Using Amazon Data Lifecycle Manager to manage your AWS resources
- 15. Creating backup and data recovery plans
- 16. Configuring shared file system storage #### Module 13: Object Storage
- 17. Deploying Amazon Simple Storage Service (Amazon S3)

- 18. Managing storage lifecycles on Amazon S3 #### Module 14: Cost Reporting, Alerts, and Optimization
- 19. Gaining AWS cost awareness $% \left({{{\rm{AWS}}} \right)$
- 20. Using control mechanisms for cost management
- 21. Optimizing your AWS spend and usage

Labs

- 1. Auditing AWS Resources with AWS Systems Manager and AWS Config
- 2. Automating with AWS Backup for Archiving and Recovery
- 3. Capstone lab for CloudOps

Prerequisites

- 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)

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