



Ideas and Value for Companies

SYSTEMS OPERATIONS ON AWS

In this three-day course, you'll learn how to automate administrative tasks, ensure resource compliance, and improve the security and resilience of your environment to prevent downtime and maintain continuity of your business applications.

This course focuses on the operational excellence pillar and is ideal for system administrators and anyone performing day-to-day operations on AWS. You'll engage with an accredited AWS expert instructor with deep technical knowledge and learn via an engaging mix of presentations, peer discussion, and interactive activities. Apply what you've learned with a progressive series of seven hands-on-labs, including a capstone lab for SysOps. Each module concludes with a troubleshooting section to reinforce the concepts learned throughout the course.

Systems Operations on AWS helps you build and demonstrate your skills in configuring, deploying, and troubleshooting your AWS environments. And when the time is right for you to validate your new skills with an industry-recognized credential, this course helps you prepare for the AWS Certified SysOps Administrator – Associate certification exam.

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The content of this course is designed to support the course objectives.

Module 1: Introduction to System Operations on AWS

- Systems operations
- AWS Well-Architected Framework
- AWS Well-Architected Tool

Module 2a: Access Management

- Access management
- Resources, accounts, and AWS Organizations

Module 2b: System Discovery

- Methods to interact with AWS services
- Introduction to monitoring 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 3: Deploy and Update Resources

- Systems operations in deployments
- Tagging strategies
- Deployment using Amazon Machine Images (AMIs)
- Deployment using AWS Control Tower
- Troubleshooting scenario

Module 4: Automate Resource Deployment

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

Module 5: Manage Resources

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

Module 6a: Configure Highly Available Systems

- Distributing traffic with Elastic Load Balancing
- Amazon Route 53

Module 6b: Automate Scaling

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

Module 7: Monitor and Maintain System Health

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

Module 8: Data Security and System Auditing

- Maintaining a strong identity and access foundation
- Implementing detection mechanisms
- Automating incident remediation
- Troubleshooting scenario
- Hands-On Lab: Implementing IAM permissions boundaries

Module 9: Operate Secure and Resilient Networks

- Building a secure Amazon Virtual Private Cloud (Amazon VPC)
- Networking beyond the VPC
- Troubleshooting scenario

Module 10a: 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

Module 10b: Object Storage

- Deploying Amazon Simple Storage Service (Amazon S3) with Access Logs, Cross-Region
- Replication, and S3 Intelligent-Tiering
- Hands-On Lab: Automating with AWS Backup for Archiving and Recovery

Module 11: 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 SysOps



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DISCOVER COURSE CATALOG

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