Cloud Operations on AW

Cloud Operations on AWS

Note: This course was called "Systems Operations on AWS" until February 2023. It has been renamed. The content remains unchanged.

This course teaches systems operators and anyone performing cloud operations functions how to manage and operate automatable and repeatable deployments of networks and systems on AWS.

You will learn about cloud operations functions, such as installing, configuring, automating, monitoring, securing, aintaining, and troubleshooting these services, networks, and systems. The course also covers specific AWS features, tools, and best practices related to these functions.

The final day is an AWS Jam, a gamified event, with teams competing to score points by completing a series of challenges according to established best practices based on concepts covered in the course. You get to experience a wide range of AWS services in a series of real-world scenarios that represent common operational and troubleshooting tasks. The end result is developing, enhancing, and validating your skillsets in the AWS Cloud through real-world problem solving, exploring new services, features, and understanding how they interoperate.

Course Contents

- Module 1: Introduction to Cloud Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment
- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
- Module 8: Automate Scaling
- Module 9: Monitor and Maintain System Health
- Module 10: Data Security and System Auditing
- Module 11: Operate Secure and Resilient Networks
- Module 12: Mountable Storage
- Module 13: Object Storage
- Module 14: Cost Reporting, Alerts, and Optimization

You have access to the labs for another 14 days after the course. This way you can repeat exercises or deepen them individually.

E-Book You will receive the original course documentation by Amazon Web Services as an ebook.

Target Group

This course is intended for:

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

Prerequisites

We recommend that attendees of this course have:

- Successfully completed the AWS Technical Essentials course
- A background in 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)

Practical lab exercises with the AWS environment are part of the training. In order to be able to carry out these successfully, an internet-capable notebook (Windows, Linux, MacOS) is a

Important: Therefore, please bring your notebook to the course! If this is not possible, please contact us in advance.

Status 04/12/2024

This Course in the Web



■ You can find the up-to-date information and options for ordering under the following link:

www.experteach-training.com/go/AWSO

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
Classes in Germany	3 Days € 2,095	
Online Training	3 Days € 2,095	
Date/course venue	Course language German	
22/04-24/04/24 — Online 18/06-20/06/24	14/10-16/10/24 ∰München 14/10-16/10/24 ∰Online	





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Module 1: Introduction to System Operations on AWS	Hands-On Lab: Infrastructure as Code Module 5: Manage Resources	Hands-On Lab: Implementing IAM permissions boundaries Module 9: Operate Secure and Resilient Networks
Systems operations	AWS Systems Manager	·
AWS Well-Architected Framework	Troubleshooting scenario	Building a secure Amazon Virtual Private Cloud (Amazon VPC)
AWS Well-Architected Tool Module 2a: Access Management	Hands-On Lab: Operations as Code Module 6a: Configure Highly Available Systems	Networking beyond the VPC
		Troubleshooting scenario
Access management	Distributing traffic with Elastic Load Balancing	Module 10a: Mountable Storage
Resources, accounts, and AWS Organizations Module 2b: System Discovery	Amazon Route 53 Module 6b: Automate Scaling	Configuring Amazon Elastic Block Storage (Amazon EBS)
Methods to interact with AWS services	Scaling with AWS Auto Scaling	Sizing Amazon EBS volumes for performance
Introduction to monitoring services	Scaling with Spot Instances	Using Amazon EBS snapshots
Tools for automating resource discovery	Managing licenses with AWS License Manager	Using Amazon Data Lifecycle Manager to manage your AWS resources
Inventory with AWS Systems Manager and AWS Config	Troubleshooting scenario Module 7: Monitor and Maintain System Health	Creating backup and data recovery plans
Troubleshooting scenario	Monitoring and maintaining healthy workloads	Configuring shared file system storage Module 10b: Object Storage
Hands-On Lab: Auditing AWS Resources with AWS	Monitoring distributed applications	
Systems Manager and AWS Config Module 3: Deploy and Update Resources	Monitoring AWS infrastructure	Deploying Amazon Simple Storage Service (Amazon S3) with Access Logs, Cross-Region
Systems operations in deployments	Monitoring your AWS account	Replication, and S3 Intelligent-Tiering
Tagging strategies	Troubleshooting scenario	Hands-On Lab: Automating with AWS Backup for Archiving and Recovery
Deployment using Amazon Machine Images (AMIs)	Hands-On Lab: Monitoring Applications and Infrastructure	Module 11: Cost Reporting, Alerts, and Optimization
Deployment using AWS Control Tower	Module 8: Data Security and System Auditing	Gaining AWS cost awareness
Troubleshooting scenario Module 4: Automate Resource Deployment	Maintaining a strong identity and access foundation	Using control mechanisms for cost management
Deployment using AWS CloudFormation	Implementing detection mechanisms	Optimizing your AWS spend and usage
Deployment using AWS Service Catalog	Automating incident remediation	Hands-On Lab: Capstone lab for SysOps
Troubleshooting scenario	Troubleshooting scenario	











