

AW240-EN Cloud Operations on AWS

Kurzbeschreibung:

This course **AW240-EN Cloud Operations on AWS** 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, maintaining, and troubleshooting these services, networks, and systems. The course **AW240-EN Cloud Operations on AWS** also covers specific AWS features, tools, and best practices related to these functions.

Zielgruppe:

This course **AW240-EN Cloud Operations on AWS** 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

Voraussetzungen:

To participate in the course **AW240-EN Cloud Operations on AWS** at qSkills, you should have completed the following AWS training:

- [AW110 AWS Technical Essentials](#)

Additionally, you should meet the following prerequisites:

- 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)

Sonstiges:

Dauer: 3 Tage

Preis: 1995 Euro plus Mwst.

Ziele:

In this course **AW240-EN Cloud Operations on AWS**, you will learn to:

- Well-Architected Framework pillar
- Manage access to AWS resources using AWS accounts and organizations and AWS Identity and Access Management (IAM)
- Maintain an inventory of in-use AWS resources by using AWS services, such as AWS Systems Manager, AWS CloudTrail, and AWS Config
- Develop a resource deployment strategy using metadata tags, Amazon Machine Images (AMIs), and AWS Control Tower to deploy and maintain an AWS cloud environment

- Automate resource deployment by using AWS services, such as AWS CloudFormation and AWS Service Catalog
- Use AWS services to manage AWS resources through CloudOps lifecycle processes, such as deployments and patches
- Configure a highly available cloud environment that uses AWS services, such as Amazon Route 53 and Elastic Load Balancing, to route traffic for optimal latency and performance
- Configure AWS Auto Scaling and Amazon EC2 Auto Scaling to scale out your cloud environment based on demand
- Use Amazon CloudWatch and associated features, such as alarms, dashboards, and widgets, to monitor your cloud environment
- Manage permissions and track activity in your cloud environment by using AWS services, such as AWS CloudTrail and AWS Config
- Deploy your resources to an Amazon Virtual Private Cloud (Amazon VPC), establish necessary connectivity to your Amazon VPC, and protect your resources from disruptions of service
- State the purpose, benefits, and appropriate use cases for mountable storage in your AWS Cloud environment

Inhalte/Agenda:

- ♦ **Introduction to Cloud Operations on AWS**
 - ♦ What is Cloud Operations
 - ♦ AWS Well-Architected Framework
 - ♦ AWS Well-Architected Tool
- ♦
- ♦ **Access Management**
 - ♦ AWS Identity and Access Management (IAM)
 - ♦ Resources, accounts, and AWS Organizations
- ♦
- ♦ **System Discovery**
 - ♦ Methods to interact with AWS services
 - ♦ Tools for automating resource discovery
 - ♦ Inventory with AWS Systems Manager and AWS Config
 - ♦ Hands-On Lab: Auditing AWS Resources with AWS Systems Manager and AWS Config
- ♦
- ♦ **Deploy and Update Resources**
 - ♦ Cloud Operations in deployments
 - ♦ Tagging strategies
 - ♦ Deployment using Amazon Machine Images (AMIs)
 - ♦ Deployment using AWS Control Tower
- ♦
- ♦ **Automate Resource Deployment**
 - ♦ Deployment using AWS CloudFormation
 - ♦ Deployment using AWS Service Catalog
 - ♦ Hands-On Lab: Infrastructure as Code
- ♦
- ♦ **Manage Resources**
 - ♦ AWS Systems Manager
 - ♦ Hands-On Lab: Operations as Code
- ♦
- ♦ **Configure Highly Available Systems**
 - ♦ Distributing traffic with Elastic Load Balancing
 - ♦ Amazon Route 53
- ♦
- ♦ **Automate Scaling**
 - ♦ Scaling with AWS Auto Scaling
 - ♦ Scaling with Spot Instances
 - ♦ Managing licenses with AWS License Manager
- ♦
- ♦ **Monitor and Maintain System Health**
 - ♦ Monitoring and maintaining healthy workloads
 - ♦ Monitoring AWS infrastructure
 - ♦ Monitoring applications
 - ♦ Hands-On Lab: Monitor Applications and Infrastructure
- ♦
- ♦ **Data Security and System Auditing**
 - ♦ Maintaining a strong identity and access foundation
 - ♦ Implementing detection mechanisms
 - ♦ Automating incident remediation
- ♦
- ♦ **Operate Secure and Resilient Networks**
 - ♦ Building a secure Amazon Virtual Private Cloud (Amazon VPC)
 - ♦ Networking beyond the VPC
- ♦
- ♦ **Mountable Storage**
 - ♦ Configuring Amazon Elastic Block Store (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
 - ♦ Hands-On Lab: Automating with AWS Backup for Archiving and Recovery
- ♦

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- - ◆ **Object Storage**
 - ◆ ◇ Deploying Amazon Simple Storage Service (Amazon S3)
 - ◆ ◇ Managing storage lifecycles on Amazon S3
- - ◆ ◇
- - ◆ **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

