# skillsoft<sup>™</sup> global knowledge<sub>™</sub>

# **Cloud Operations on AWS (formerly Systems Operations)**

Varighed: 4 Days Kursus Kode: GK4503 Leveringsmetode: Company event (Firmakursus)

### Beskrivelse:

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, maintaining, and troubleshooting these services, networks, and systems. The course also covers specific AWS features, tools, and best practices related to these functions.

#### Firmakursus

Med et firmakursus bliver jeres it-kompetenceudvikling målrettet jeres behov. Det betyder, at vi hjælper med at finde og sammensætte det helt rigtige kursusindhold og den helt rigtige form. Kurset kan afvikles hos os eller kunden, standard eller virtuelt.

## Målgruppe:

This course is intended for System administrators and operators who are operating in the AWS Cloud and IT workers who want to increase their cloud operations knowledge.

#### Agenda:

## After completing this course you should be able to:

- Identify the AWS services that support the different phases of Operational Excellence, an AWS 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
- Explain the operational characteristics of object storage in the AWS Cloud, including Amazon Simple Storage Service (Amazon S3) and Amazon S3 Glacier
- Build a comprehensive cost model to help gather, optimize, and predict your cloud costs by using services such as AWS Cost Explorer and the AWS Cost & Usage Report

## Forudsætninger:

## Attendees should meet the following prerequisites:

- Attended the AWS Technical Essentials course
- Background in either software development or systems administration

## Test og certificering

#### Recommended as preparation for the following exams:

AWS Certified SysOps Administrator - Associate certification exam.

- 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)
- GK4501 AWS Technical Essentials

## Yderligere Kurser:

GK1979 - DevOps Engineering on AWS

## Indhold:

Day 1	Day 2	Day 3
Module 1: Introduction to Cloud Operations on	Module 6: Manage Resources	Module 11: Operate Secure and Resilient
AWS		Networks
	AWS Systems Manager	
What is Cloud Operations	Hands-On Lab: Operations as Code	Building a secure Amazon Virtual Private
AWS Well-Architected Framework		Cloud (Amazon VPC)
AWS Well-Architected Tool	Module 7: Configure Highly Available	Networking beyond the VPC
	Systems	
Module 2: Access Management		Module 12: Mountable Storage
ő	Distributing traffic with Elastic Load	C C
AWS Identity and Access Management	Balancing	Configuring Amazon Elastic Block Store
(IAM)	Amazon Route 53	(Amazon EBS)
Resources, accounts, and AWS		<ul> <li>Sizing Amazon EBS volumes for</li> </ul>
Organizations	Module 8: Automate Scaling	performance
e gameatorio		Using Amazon EBS snapshots
Module 3: System Discovery	Scaling with AWS Auto Scaling	<ul> <li>Using Amazon Data Lifecycle Manager to</li> </ul>
	<ul> <li>Scaling with Spot Instances</li> </ul>	manage your AWS resources
Methods to interact with AWS services	<ul> <li>Managing licenses with AWS License</li> </ul>	<ul> <li>Creating backup and data recovery plans</li> </ul>
<ul> <li>Tools for automating resource discovery</li> </ul>	Manager	<ul> <li>Configuring shared file system storage</li> </ul>
<ul> <li>Inventory with AWS Systems Manager and</li> </ul>	Manager	<ul> <li>Hands-On Lab: Automating with AWS</li> </ul>
AWS Config	Module 9: Monitor and Maintain System	Backup for Archiving and Recovery
Hands-On Lab: Auditing AWS Resources	Health	Dackup for Archiving and Necovery
with AWS Systems Manager and AWS	Tealth	Module 13: Object Storage
Config	Monitoring and maintaining healthy	Module 13. Object Storage
Coning	workloads	Deploying Amazon Simple Storage
Madula 4. Daplay and Undata Descurees		
Module 4: Deploy and Update Resources	Monitoring AWS infrastructure	Service (Amazon S3)
	Monitoring applications	Managing storage lifecycles on Amazon
Cloud Operations in deployments	Hands-On Lab: Monitor Applications and Infractionations	S3
Tagging strategies	Infrastructure	Madula 44 Ocal Depending Alasta and
Deployment using Amazon Machine Images (AMIL)	Madula 40. Data Oscarita and Oscilar	Module 14: Cost Reporting, Alerts, and
(AMIs)	Module 10: Data Security and System	Optimization
Deployment using AWS Control Tower	Auditing	
		Gaining AWS cost awareness
Module 5: Automate Resource Deployment	Maintaining a strong identity and access	Using control mechanisms for cost
	foundation	

- Deployment using AWS CloudFormation
- Deployment using AWS Service Catalog
- Hands-On Lab: Infrastructure as Code
- Implementing detection mechanisms
  - Automating incident remediation

- c Block Store
- les for
- hots
- cle Manager to es
- recovery plans
- tem storage
- with AWS ecovery
- Storage
- s on Amazon

- ess
- for cost
- Optimizing your AWS spend and usage
- Hands-On Lab: Capstone lab for CloudOps

# Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre

GK4503

tlf.nr.: 44 88 18 00