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

Varighed: 3 Days Kursus Kode: GK4503

Leveringsmetode: Virtuel deltagelse

#### 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.

#### Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

#### 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

#### Test og certificering

Recommended as preparation for the following exams:

AWS Certified SysOps Administrator - Associate certification exam.

- 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)
- 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 Networking beyond the VPC Module 7: Configure Highly Available Systems Module 12: Mountable Storage Module 2: Access Management Distributing traffic with Elastic Load Configuring Amazon Elastic Block Store AWS Identity and Access Management Balancing Amazon Route 53 (Amazon EBS) (IAM) Resources, accounts, and AWS Sizing Amazon EBS volumes for Module 8: Automate Scaling Organizations performance Using Amazon EBS snapshots Module 3: System Discovery Scaling with AWS Auto Scaling Using Amazon Data Lifecycle Manager to Scaling with Spot Instances manage your AWS resources Methods to interact with AWS services Managing licenses with AWS License Creating backup and data recovery plans Tools for automating resource discovery Manager Configuring shared file system storage Inventory with AWS Systems Manager and Hands-On Lab: Automating with AWS AWS Config Module 9: Monitor and Maintain System Backup for Archiving and Recovery Health Hands-On Lab: Auditing AWS Resources with AWS Systems Manager and AWS Module 13: Object Storage Config Monitoring and maintaining healthy workloads Deploying Amazon Simple Storage 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 S3 Tagging strategies Infrastructure Deployment using Amazon Machine Images 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 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 CloudOps Hands-On Lab: Infrastructure as Code

### Flere Informationer:

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

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