

Advanced Architecting on AWS

Varighed: 3 Days Kursus Kode: GK1980 Version: 3.11.7 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

In this course, each module presents a scenario with an architectural challenge to be solved.

You will examine available AWS services and features as solutions to the problem. You will gain insights by participating in problem-based discussions and learning about the AWS services that you could apply to meet the challenges. Over 3 days, the course goes beyond the basics of a cloud infrastructure and covers topics to meet a variety of needs for AWS customers. Course modules focus on managing multiple AWS accounts, hybrid connectivity and devices, networking with a focus on AWS Transit Gateway connectivity, container services, automation tools for continuous integration/continuous delivery (CI/CD), security and distributed denial of service (DDoS) protection, data lakes and data stores, edge services, migration options, and managing costs. The course concludes by presenting you with scenarios and challenging you to identify the best solutions.

Course level: Advanced

Duration: 3 days

Updated August 2026

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:

- Cloud architects
 - Solutions architects
 - Anyone who designs solutions for cloud infrastructures
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Agenda:

■ **In this course, you will learn to:**

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| ■ Describe best cloud design practices through review of poll questions and graphic diagrams | ■ Identify the anomaly detection and protection services that AWS offers to defend against DDoS attacks |
| ■ Identify how to implement centralized permissions management and reduce risk while determining best practices based on use cases | ■ Identify ways to secure data in transit, at rest, and in use with AWS encryption services |
| ■ Explore AWS hybrid network designs to address traffic increases and scalability while ensuring security compliance | ■ Determine the best data management solution based on frequency of access, and data query and analysis needs |
| ■ Explore solutions available to design a hybrid infrastructure, including access to 5G networks, to optimize service and reduce latency for on-premises applications | ■ Identify solutions to optimize edge services to eliminate latency, reduce inefficiencies, and mitigate risks |
| ■ Identify and discuss container solutions and management options | ■ Review AWS cost management tools to help reduce costs while optimizing performance |
| ■ Examine how AWS developer tools optimize a CI/CD pipeline with updates based on various deployment strategies | ■ Review AWS migration tools and services to implement effective cloud operation models based on use cases and business needs |
| | ■ Apply technical knowledge and experience gained from this course within a lab environment |
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Forudsætninger:

We recommend that attendees of this course have:

- at least 1 year of experience operating AWS workloads

Test og certificering

None

Yderligere Kurser:

- GK1980 - Advanced Architecting on AWS
- GK4532 - Migrating to AWS
- GK821495 - AWS Well-Architected Best Practices

Indhold:

Day 1

Module 1: Reviewing Architecting Concepts

- Hands-On Lab: Securing Amazon S3 VPC endpoint communications
- Architectural review
- Group Exercise: Review Architecting on AWS core best practices

Module 2: Single to Multiple Accounts

- Multi-account strategies
- AWS IAM Identity Center
- AWS Control Tower

Module 3: Hybrid Connectivity

- AWS Client VPN
- AWS Site-to-Site VPN
- AWS Direct Connect
- Amazon Route 53 Resolver

Module 4: Specialized Infrastructure

- AWS Storage Gateway
- VMware Cloud on AWS
- AWS Outposts
- AWS Local Zones
- AWS Wavelength

Module 5: Connecting Networks

- Hands-On Lab: Configuring AWS Transit Gateway
- AWS Transit Gateway
- AWS Resource Access Manager
- AWS PrivateLink

Day 2

Module 6: Containers

- Hands-On Lab: Deploying an application with Amazon EKS on Fargate
- Containers
- Container hosting on AWS
- Amazon ECS
- Amazon EKS

Module 7: Continuous Integration/Continuous Delivery (CI/CD)

- CI/CD
- Code services
- Deployment models
- AWS CloudFormation StackSets

Module 8: High Availability and DDoS Protection

- AWS WAF
- AWS Shield Advanced
- AWS Firewall

Module 9: Securing Data

- Cryptography
- AWS KMS
- AWS CloudHSM
- AWS Secrets Manager

Module 10: Large-Scale Data Stores

- Hands-On Lab: Setting up a data lake with Lake Formation
- S3 data management
- Data lakes
- AWS Lake Formation

Day 3

Module 11: Migrating Workloads

- Hands-On Lab: Migrating an on-premises NFS share using AWS DataSync and Storage Gateway
- Migration process
- Migration tools
- Migrating databases

Module 12: Optimizing Cost

- Cloud cost management
- Cost management tools
- Cost optimization

Module 13: Architecting for the Edge

- Amazon CloudFront
- [Lambda@Edge](#)
- AWS Global Accelerator

Module 14: Review Projects

- Use the Online Course Supplement (OCS) to review use cases, investigate data, and answer architecting design questions about Transit Gateway, hybrid connectivity, migration, and cost
- optimization

Additional Information:

Activities:

This course includes presentations, group discussions, use cases, videos, assessments, and hands-on labs.

Flere Informationer:

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

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