

## Building Advanced Agentic Systems on AWS

Varighed: 1 Day    Kursus Kode: GK910037    Leveringsmetode: Company event (Firmakursus)

### Beskrivelse:

Implement production-ready multi-agent systems using Amazon Bedrock AgentCore, covering multi-agent patterns, context optimization techniques, security configurations, and monitoring frameworks. You will examine the skills needed to move beyond proof-of-concept to scalable, secure, and observable agentic AI implementations. The course prepares you to design and deploy advanced agentic systems ready for real-world production environment.

Updated Jan 2026

### 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:

- Software developers

### Agenda:

- In this course, you will learn to do the following:
  - Analyze scenarios that require multi-agent architectures.
  - Describe primary multi-agent communication patterns and their use cases.
  - Configure agent-as-tool patterns for production deployments.
  - Implement memory sharing using available platform capabilities.
  - Implement context management strategies for production workloads.
  - Design context compression and optimization mechanisms.
  - Optimize resource usage and cost management across multi-agent systems.
  - Configure policy-based access control using AgentCore Policy Engine.
- Implement VPC integration for secure agent deployments.
- Implement distributed tracing and monitoring across multi-agent systems.
- Establish comprehensive agent evaluation frameworks.
- Configure integration patterns for enterprise observability systems
- Establish comprehensive audit trails and compliance monitoring.
- Integrate agentic systems with production APIs and services.
- Design deployment strategies for production environments.
- Assess production readiness and establish continuous improvement processes.

### Forudsætninger:

**We recommend that attendees of this course have knowledge of:**

- Agentic AI Foundations
- Building Agentic AI with Amazon Bedrock AgentCore

### Test og certificering

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## Yderligere Kurser:

None

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### Indhold:

#### Module 1: Multi-Agent Architecture and Communications Patterns

- Single agent limitations and multi-agent benefits
- Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore
- Task 1: Building a Personal Budget Assistant with Strands Agents
- Multi-agent communication patterns
- Memory and state management
- Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore

#### Task 2: Building a Multi-Agent System for Complex Financial Analysis

#### Module 2: Context Engineering and Performance Optimization

- Context as finite resource
- Context optimization techniques
- Tool design for context efficiency

#### Module 3: Security and Compliance Implementation

- Production Identity and Access Management
- VPC integration and network security

#### Module 4: Production Monitoring, Observability, and Evaluation

- Monitoring architecture
- AgentCore evaluation
- Enterprise observability integration
- Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore

#### Task 3: Deploying Production-Ready Agents with Amazon Bedrock AgentCore

#### Module 5: Well-Architected Agentic AI Systems

- Applying the Well-Architected framework
- Well-Architected deployment
- Production readiness

#### Module 6: Course Wrap-up

- Next steps and additional resources
- Course summary

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### Flere Informationer:

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

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