
Building Agentic AI with Amazon Bedrock AgentCore

Varighed: 1 Day Kursus Kode: GK910036 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

Explore the core principles and strategies for designing Agentic AI systems using AWS services.

In this course, you'll learn how to advance your proof-of-concept agents to production-ready agentic AI solutions on AWS. You will use Amazon Bedrock AgentCore services for tool orchestration, identity management, and production monitoring to implement secure, scalable enterprise AI systems ready for deployment.

- **Course level:** Intermediate

- **Duration:** 1 day

Updated August 2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Målgruppe:

This course is intended for:

- Software developers seeking intermediate knowledge for building agentic systems
 - Technical professionals exploring AI capabilities and interested in building agentic AI systems.
 - Development teams building agentic AI solutions.
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Agenda:

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

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| ■ Define agentic AI characteristics and differentiate them from traditional AI systems. | ■ Design and deploy Model Context Protocol (MCP) servers and clients for extensible agent capabilities. |
| ■ Identify the core agent components and their interactions. | ■ Describe common authentication patterns for agent tool use. |
| ■ Describe how Bedrock AgentCore services support agentic AI. | ■ Configure AgentCore Gateway components for secure and authorized tool access. |
| ■ Deploy agents by using supported frameworks with AgentCore Runtime. | ■ Implement agentic memory patterns for different use cases. |
| ■ Describe the core features of AgentCore Runtime. | ■ Configure AgentCore Memory operations for context-aware development. |
| ■ Configure serverless execution with session isolation. | ■ Optimize memory performance for production workloads. |
| ■ Configure AgentCore Identity for enterprise security requirements. | ■ Configure AgentCore Observability for production monitoring. |
| ■ Create policies to secure agent tool calls using AgentCore Policy. | ■ Implement Amazon CloudWatch integration and specialized tracing. |
| ■ Implement secure token management and permission delegation. | ■ Describe the core features of AgentCore Evaluations. |
| ■ Ensure compliance with data governance and audit requirements. | ■ Integrate agentic systems with production APIs and services. |
| ■ Implement different tool integration patterns, including built-in tools and protocol-based tools. | ■ Design deployment strategies for production environments. |
| | ■ Assess production readiness and establish continuous improvement processes |
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Forudsætninger:

We recommend that attendees of this course have:

- Agentic AI Foundations
- GK910031 - Agentic AI Foundations

Test og certificering

None

Yderligere Kurser:

- GK1979 - DevOps Engineering on AWS
- GK910029 - Machine Learning Engineering on AWS

Indhold:

Day 1:

Module 1: Foundations of Agentic AI Patterns

- Agent building blocks
- Amazon Bedrock AgentCore introduction

Module 2: AgentCore Runtime and Framework Integration

- Supported frameworks and implementation
- AgentCore Runtime overview
- Infrastructure and deployment

Module 3: Security and Identity Management

- Security and identity management
- Securing your agents with AgentCore Identity

Module 4: Tool Integration and AgentCore Gateway

- Amazon Bedrock AgentCore Policy
- Built-in tools and custom integration
- Model Context Protocol (MCP)
- AgentCore Gateway
- Implementing AgentCore Gateway
- Amazon Bedrock AgentCore Policy

Module 5: Agentic Memory Implementation

- Agentic memory core concepts
- AgentCore Memory
- Securing AgentCore Memory
- Hands-on Lab: Enhance and Scale Agents with Amazon Bedrock AgentCore

Module 6: Production Monitoring and Observability

- Monitoring agents with AgentCore Observability
- Verifying agent performance with AgentCore Evaluation

Module 7: Course Wrap-up

- Next steps and additional resources
- Course summary

Additional Information:

Activities:

This course includes presentations, hands-on lab, and group exercises.

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