

Building Agentic AI with Amazon Bedrock AgentCore (BAIABA)

ID BAIABA Price CHF 750.—(excl. VAT) Duration 1 day

Who should attend

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

Prerequisites

We recommend that attendees of this course have:

[Agentic AI Foundations \(AAIF\)](#)

Course Objectives

In this course learners will:

- Define agentic AI characteristics and differentiate them from traditional AI systems.
- Identify the core agent components and their interactions.
- Describe how Bedrock AgentCore services support agentic AI.
- Deploy agents by using supported frameworks with AgentCore Runtime.
- Describe the core features of AgentCore Runtime.
- Configure serverless execution with session isolation.
- Configure AgentCore Identity for enterprise security requirements.
- Create policies to secure agent tool calls using AgentCore Policy.
- Implement secure token management and permission delegation.
- Ensure compliance with data governance and audit requirements.
- Implement different tool integration patterns, including built-in tools and protocol-based tools.
- Design and deploy Model Context Protocol (MCP) servers and clients for extensible agent capabilities.
- Describe common authentication patterns for agent tool use.
- Configure AgentCore Gateway components for secure and authorized tool access.

- Implement agentic memory patterns for different use cases.
- Configure AgentCore Memory operations for context-aware development.
- Optimize memory performance for production workloads.
- Configure AgentCore Observability for production monitoring.
- Implement Amazon CloudWatch integration and specialized tracing.
- Describe the core features of AgentCore Evaluations.
- Integrate agentic systems with production APIs and services.
- Design deployment strategies for production environments.
- Assess production readiness and establish continuous improvement processes

Course Content

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

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- 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

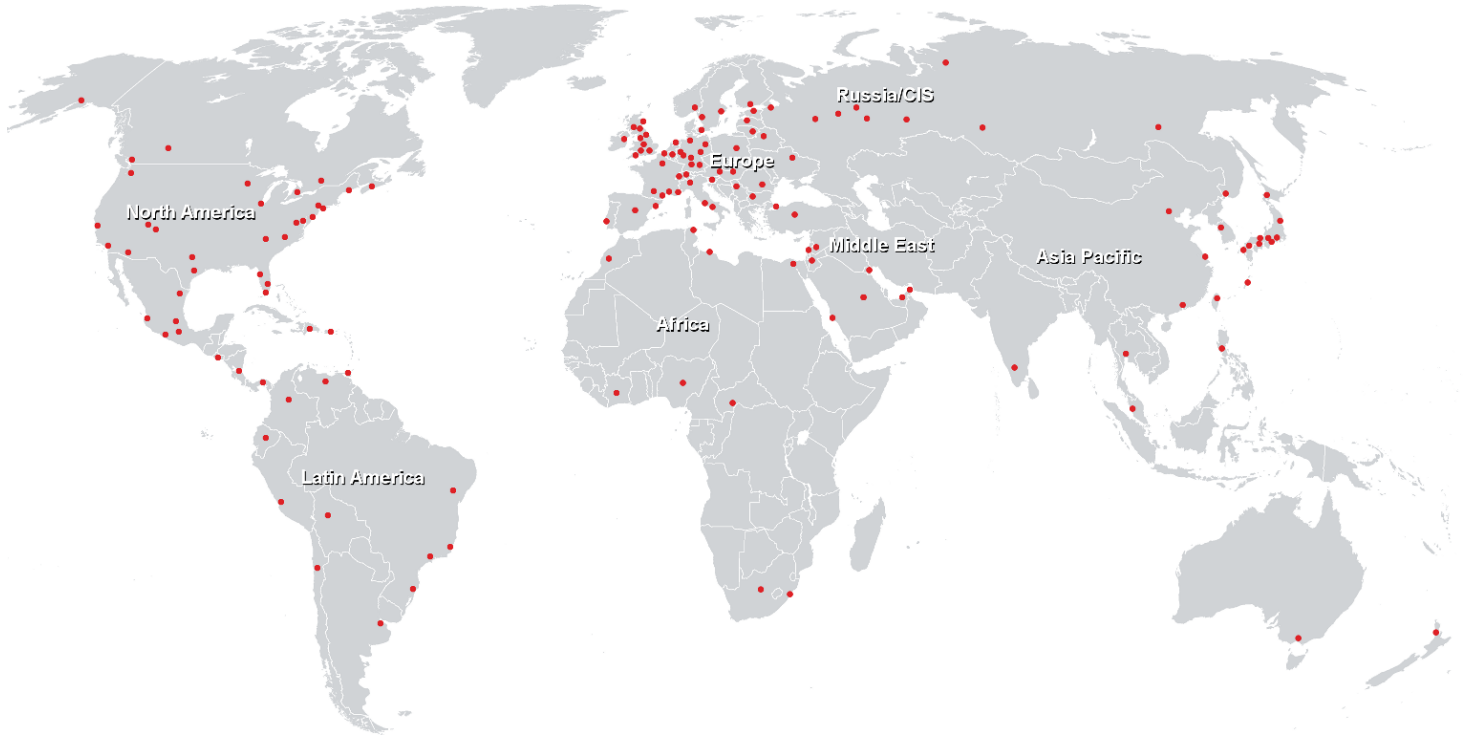
Module 7: Course Wrap-up

- Next steps and additional resources
- Course summary

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Training Centres worldwide



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