

AWS HANDS-ON WORKSHOP

Agent Speedrun:

Idea → Code → Deploy → Observe, Fix → Ship

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What is Strands Agents?

The open-source agent harness SDK - build an agent harness and control it end-to-end.

Model-driven

Use model reasoning to plan and act instead of brittle, hand-written workflows.

Few lines of code

Define an agent with a model, a prompt, and tools - and run it.

Multi-agent primitives

Scale from one agent to collaborative systems: agents-as-tools, swarms, graphs.

Open & flexible

Open-source, model and provider agnostic, with native AWS integrations.



One SDK, any model

Strands is model and provider agnostic - switch models and providers without changing your code.



Multi-modal · MCP & A2A protocols · custom tools · built-in guardrails and observability



Run agents anywhere you run Python

Prototype locally, then deploy to AWS for production use.

Amazon Bedrock
AgentCore Runtime

AWS Lambda

AWS Fargate

Amazon EKS

Amazon EC2

This workshop's path: build the harness with Strand → take it to production on **AgentCore Runtime**.



What is Amazon Bedrock AgentCore?

A platform to build, deploy, and operate highly capable agents securely, at scale.

Crossing the prototype-to-production chasm

Faster time to value

Go from prototype to production without infrastructure complexity.

Flexibility & interoperability

Build your way with any framework, model, or tool.

Security & trust at scale

Deploy with enterprise-grade security and controls.



AgentCore
Runtime



AgentCore
Memory



AgentCore
Gateway



AgentCore
Observability



AgentCore
Identity

Any framework. Any model. Any scale.

AgentCore is framework-agnostic - it works with any agent framework, not only Strands.

Strands Agents



LangGraph

CrewAI

LlamaIndex

OpenAI Agents SDK

Google ADK

Open protocols: Model Context Protocol (MCP) · Agent-to-Agent (A2A) · OpenTelemetry (OTEL)



AgentCore Runtime

Deploy any agent from prototype to production with a few lines of code - serverless, no infrastructure to manage.

Accelerated time to market

Deploy in seconds with a Python code-zip upload to Amazon S3, or use containers via Amazon ECR.

Enterprise-grade security

True session isolation with micro-VMs, VPC and PrivateLink support.

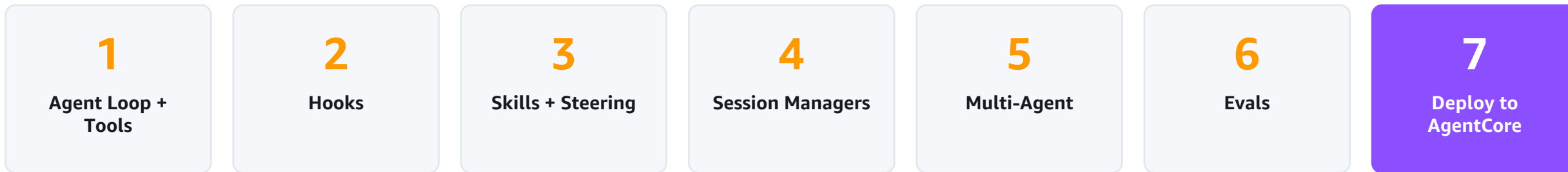
Seamless scaling

Auto-scale from zero to thousands of concurrent sessions; supports bi-directional streaming.

HANDS-ON

This is an AWS hands-on workshop

You'll build one customer service agent, then take it to production - across 7 progressive modules.



Jupyter notebooks in Code Editor · run on AWS · ~2-3 hours





Have fun!!

Thank you!



Strands SDK

github.com/strands-agents/sdk-python



Strands Samples

github.com/strands-agents/samples



AgentCore

aws.amazon.com/bedrock/agentcore

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Public Workshop



Workshop Repo