

Creating AI Agents on AWS

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AI agents

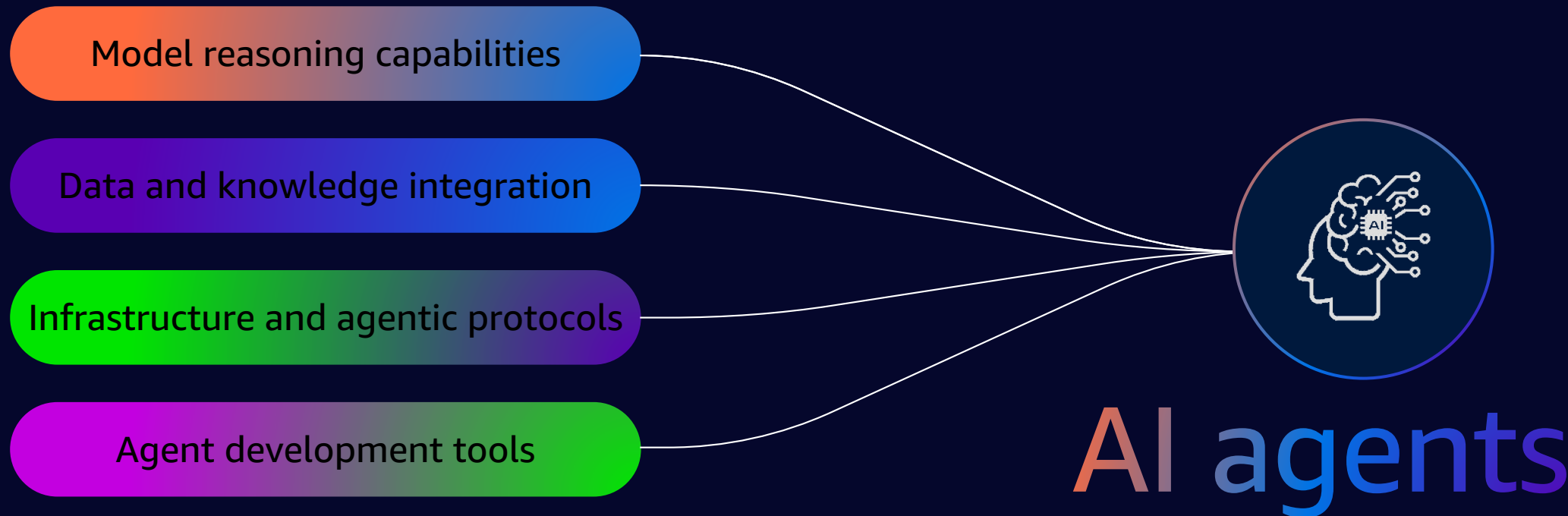
A TECTONIC SHIFT FOR HOW WE

BUILD

DEPLOY

INTERACT

Technology advancements make AI agents practical for enterprise use



Software systems that leverage AI to reason, plan, and complete tasks on behalf of humans or systems

Enterprises are doubling down on agents

33%

of enterprise software apps will include agentic AI by 2028, up from less than 1% in 2024.

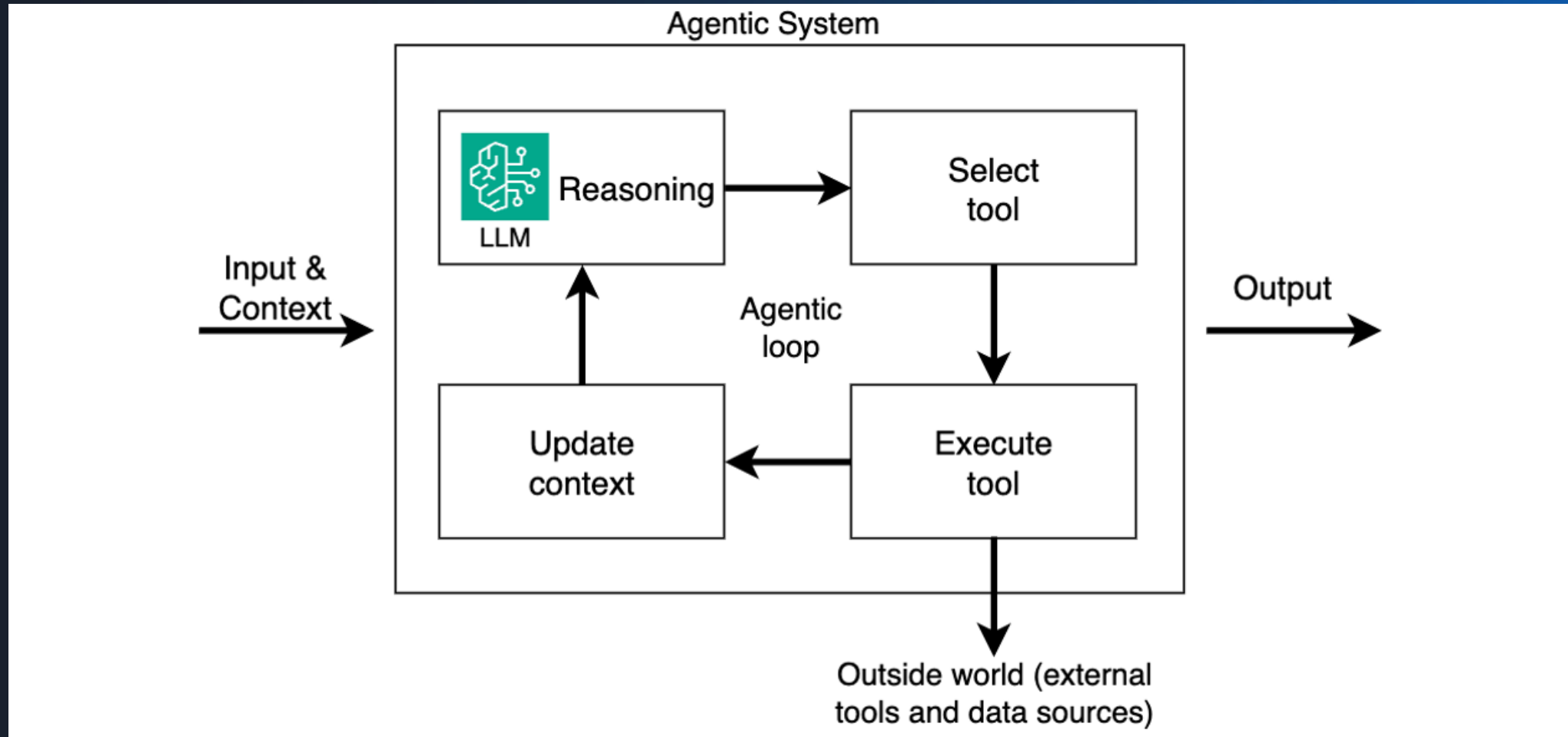
Gartner, "Top strategic Technology Trends for 2025," October 2024

15%

of day-to-day work decisions will be made autonomously through agentic AI by 2028.

Gartner, "Top Strategic Technology Trends: Agentic AI—the Evolution of Experience" February 2025

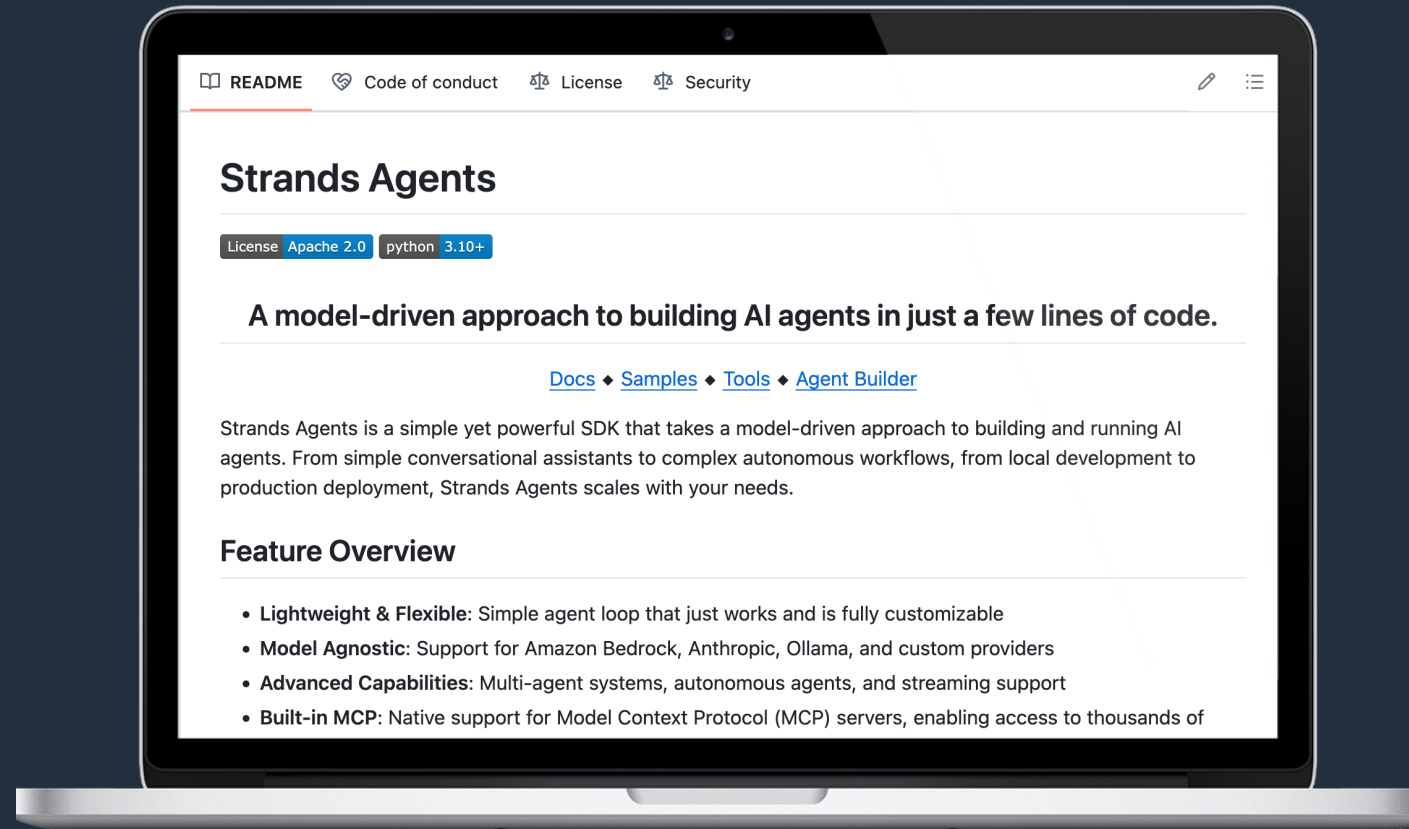
Agentic System



< Hello, World! >

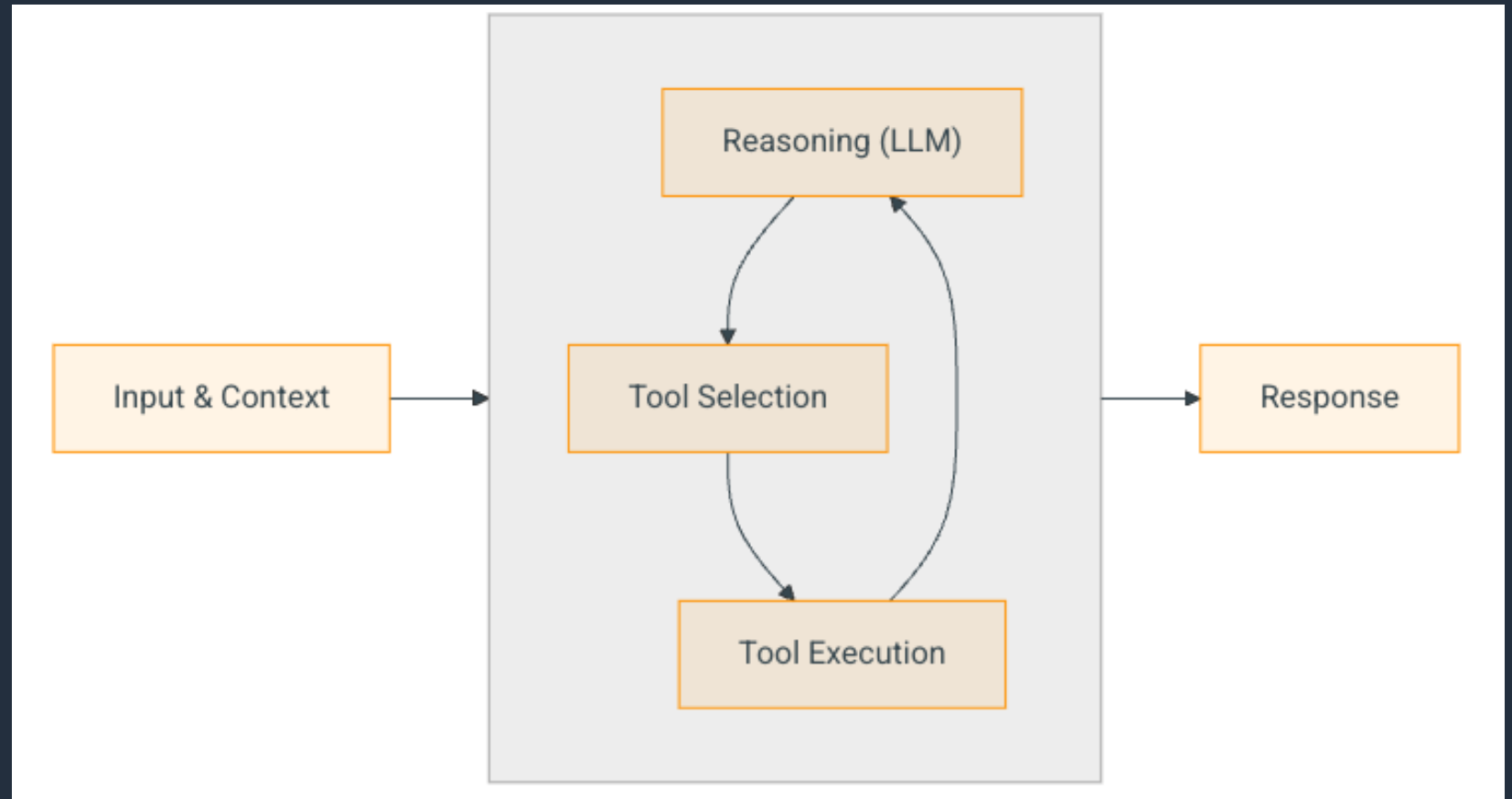
Strands Agents

Strands Agents is an open source python SDK for building agents using just a few lines of code



Strands see Agents as “models using tools in cycles”

At the core of Strands Agents is a simple agentic loop which enables models to autonomously plan next steps and execute tools.



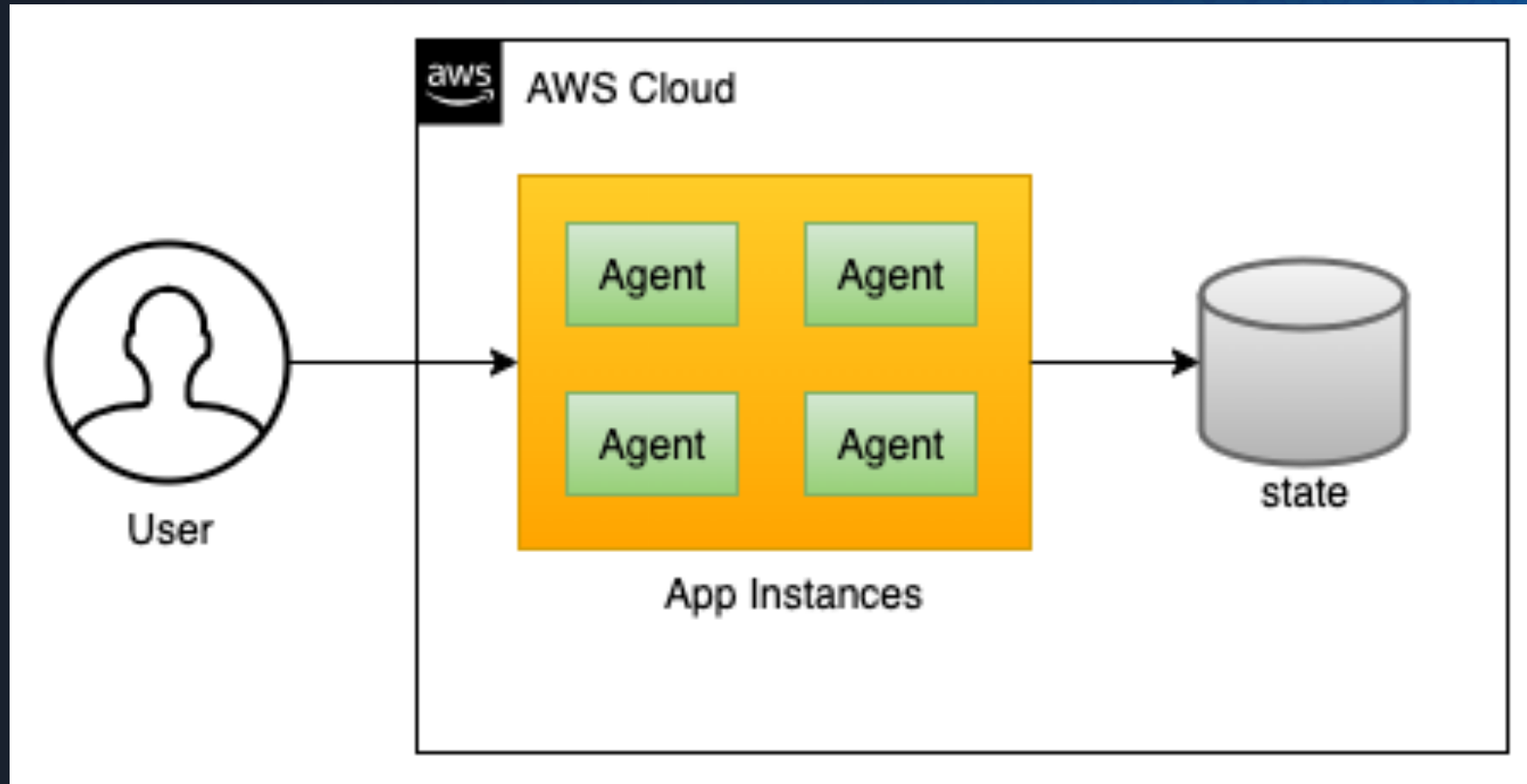
Building your first Serverless AI Agent

```
from strands import Agent

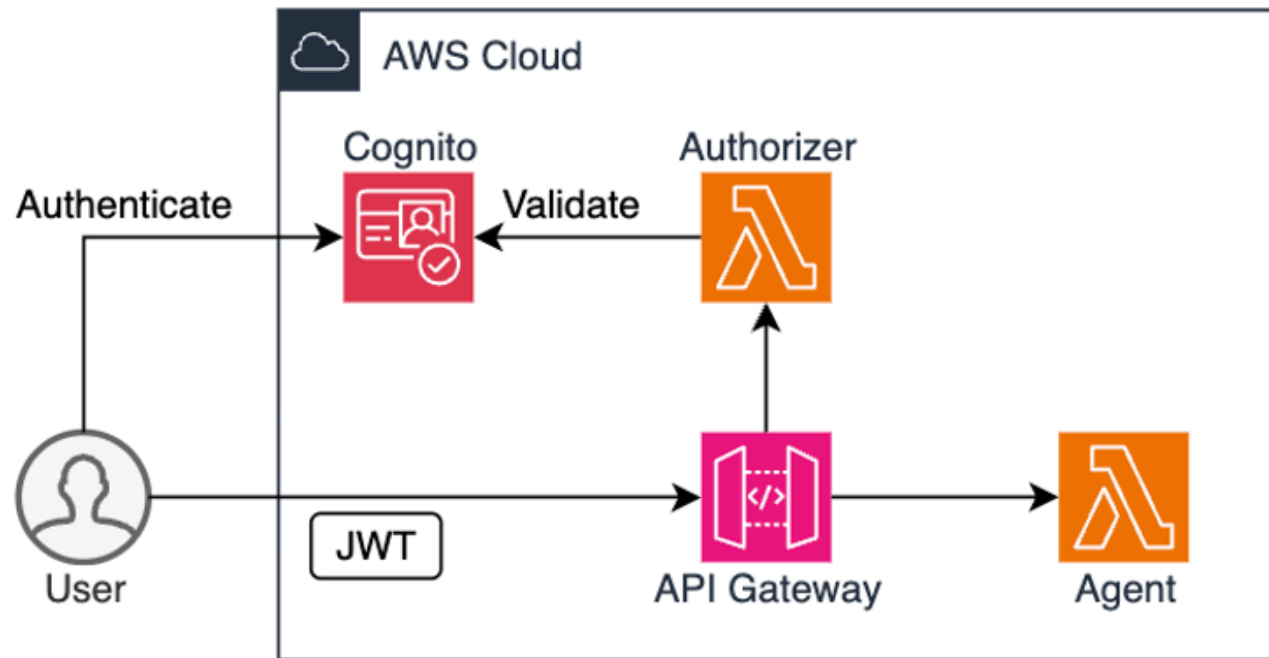
agent = Agent(
    system_prompt=
        """You're a travel assistant that helps employees
book business trips according to policy.""")

response = agent("Book me a flight to NYC next Monday.")
```

Session state management



Authentication and Authorization



MCP: What is Model Context Protocol?

Standard protocol to connect Agents to Tools

Integrating with remote MCP Servers

Valuable when tools span multiple business domains

Enables reuse, versioning and centralized governance without tightly coupling logic into agent itself



Thank You

