

Dapr in Action



From **Core Concepts** to
AI Agents

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Workshop Goals



Very short intro (we promise)!



What are LLMs?



Create agent using Dapr

Agents



Implement the ReAct pattern
(Reasoning + Action)



Build custom tools for agents to use



Create multi agent workflow



Distributed Application Runtime

dapr.io



Graduated project

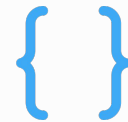
A screenshot of the Dapr website homepage. The header includes the Dapr logo, navigation links (Docs, Learn, Community, News & Media, Enterprise, 中国社区), and a "Join our Discord" button. A yellow banner below the header says "Join the Dapr Community!". The main section features the headline "APIs for Building Secure and Reliable Microservices" with "Secure" in a blue box and "Reliable" in a yellow box. Below this is a paragraph about Dapr's integrated APIs and a "Get Started" button. To the right is a diagram showing a central Dapr hub connected to various components: App, Workflow, Database, Message Broker, and another App. The bottom section displays six case studies in a grid, each with a company logo, a brief description of how they use Dapr, and a "Read the article" link. The case studies are: WATTS, Grafana, DERIVCO, Tempestive, HDFC BANK, and DeFacto.

Speeds up application development
by providing an integrated set of
APIs for communication, state, and
workflow.

Dapr Goals



Provide an integrated set of APIs



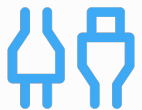
Any language or framework



Includes best practices & standards



Platform agnostic



Extensible and pluggable



Community driven, vendor neutral



Dapr Agents

<https://dapr.github.io/dapr-agents/>

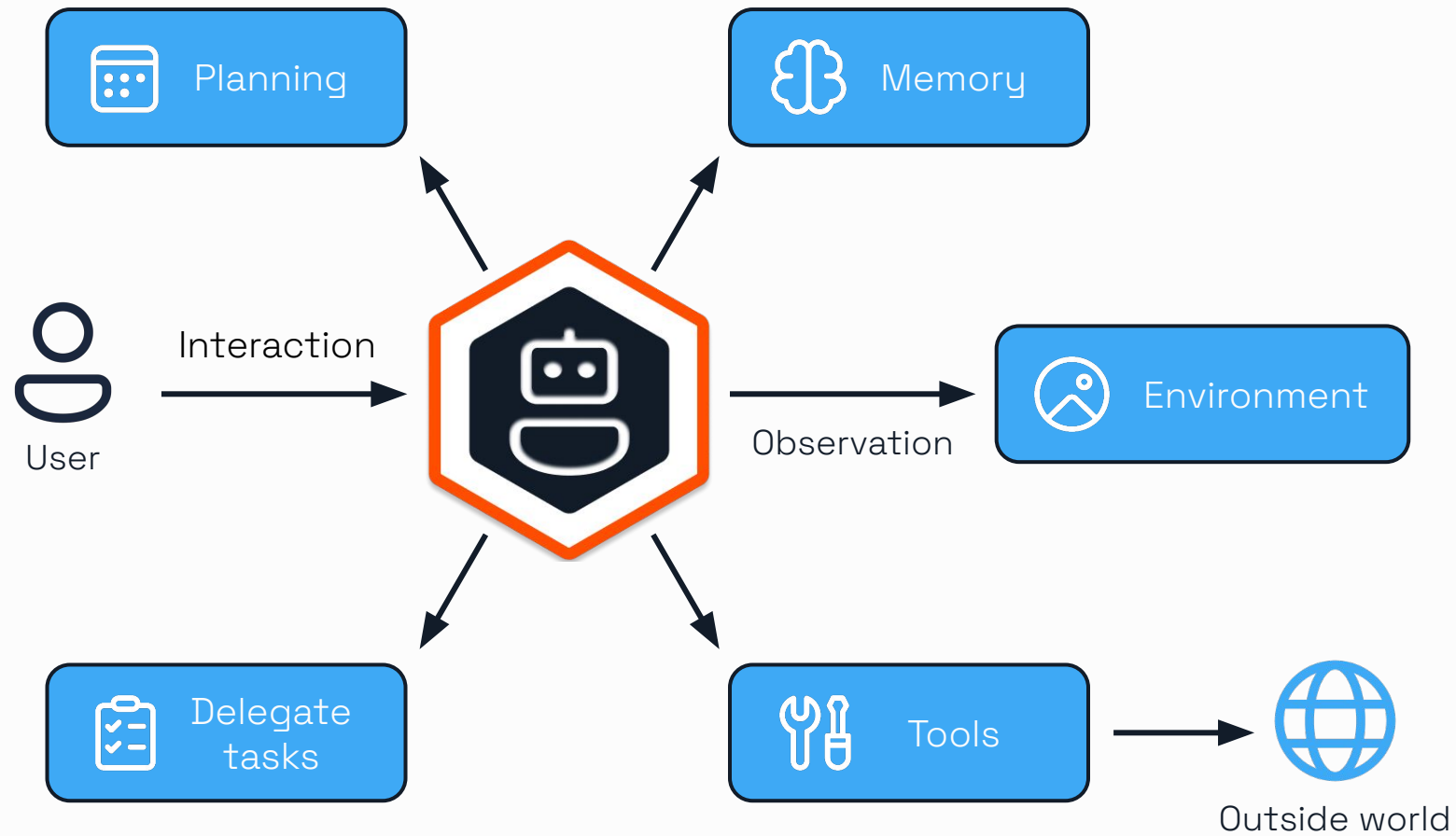
Dapr Agents



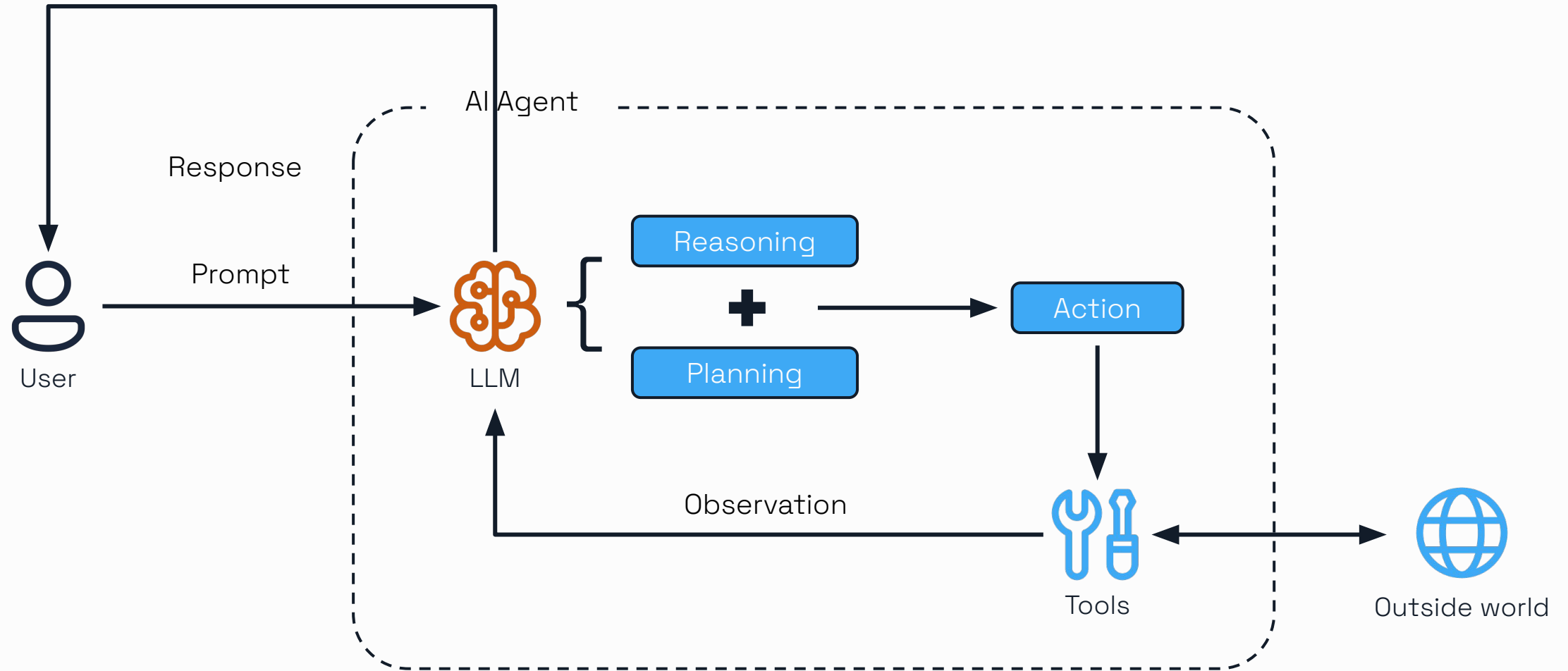
Dapr Agents is a developer framework designed to build production-grade resilient AI agent systems that operate at scale.

- Built on top of Dapr
- Kubernetes-Native
- Data-Driven Agents
- Multi-Agent Systems

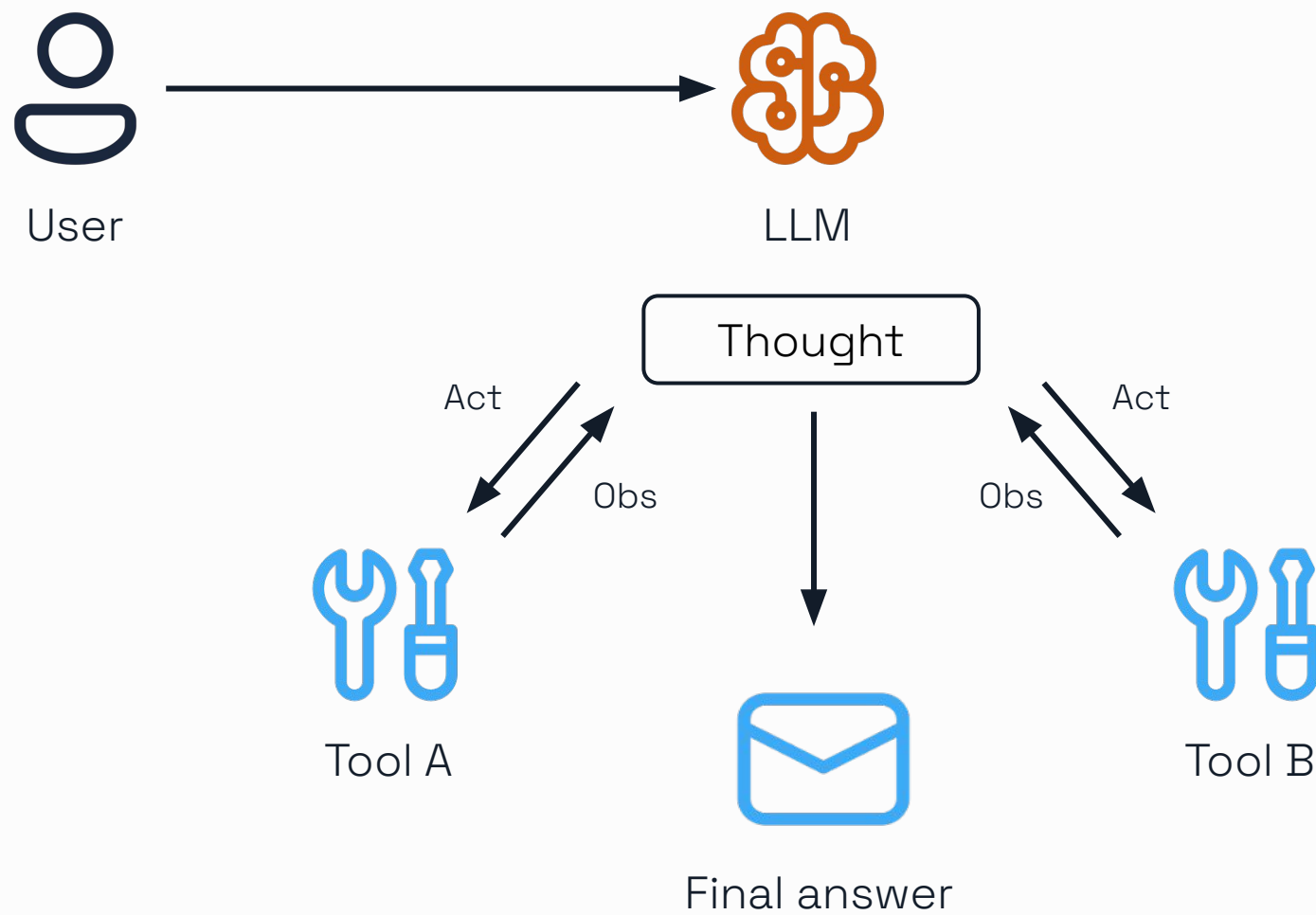
Agent Interactions



Dapr Agents



ReAct flow





Workshop Overview

<https://github.com/pyladiesams/dapr-in-action-may2025>

The Use Case



Too busy to track news and market trends?

Let's create a productivity bot!

Let's build an AI tool that:

Automatically collects and summarizes daily news.

Provides clear explanations and insights.

Checks real-time stock prices for specific companies.

Analyzes sentiment behind the news to help you make informed decision

Our Stack



Dapr Agents

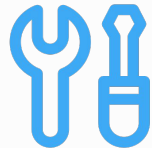
- Framework to build AI Agent Systems



HuggingFace API

- API access to various LLMs

Tools



- CurrentsApi (Daily News)
- Yahoo Stock Market API

Let's get started

Option 1: Jupyter Lab

- Clone [this git repo](#)
- Set the API keys and install the dependencies based on the instruction in the README
- Open “workshop/introductory_workshop/1_ask_llm.ipynb”
- You are ready to start!

Option 2: Google Colab

- In [Google Colab](#) > Open notebook > Github > paste [the repository link](#) > click on “workshop/introductory_workshop/1_ask_llm.ipynb”
- Set the API keys and install the dependencies based on the instruction in the notebook.
- You are ready to start!

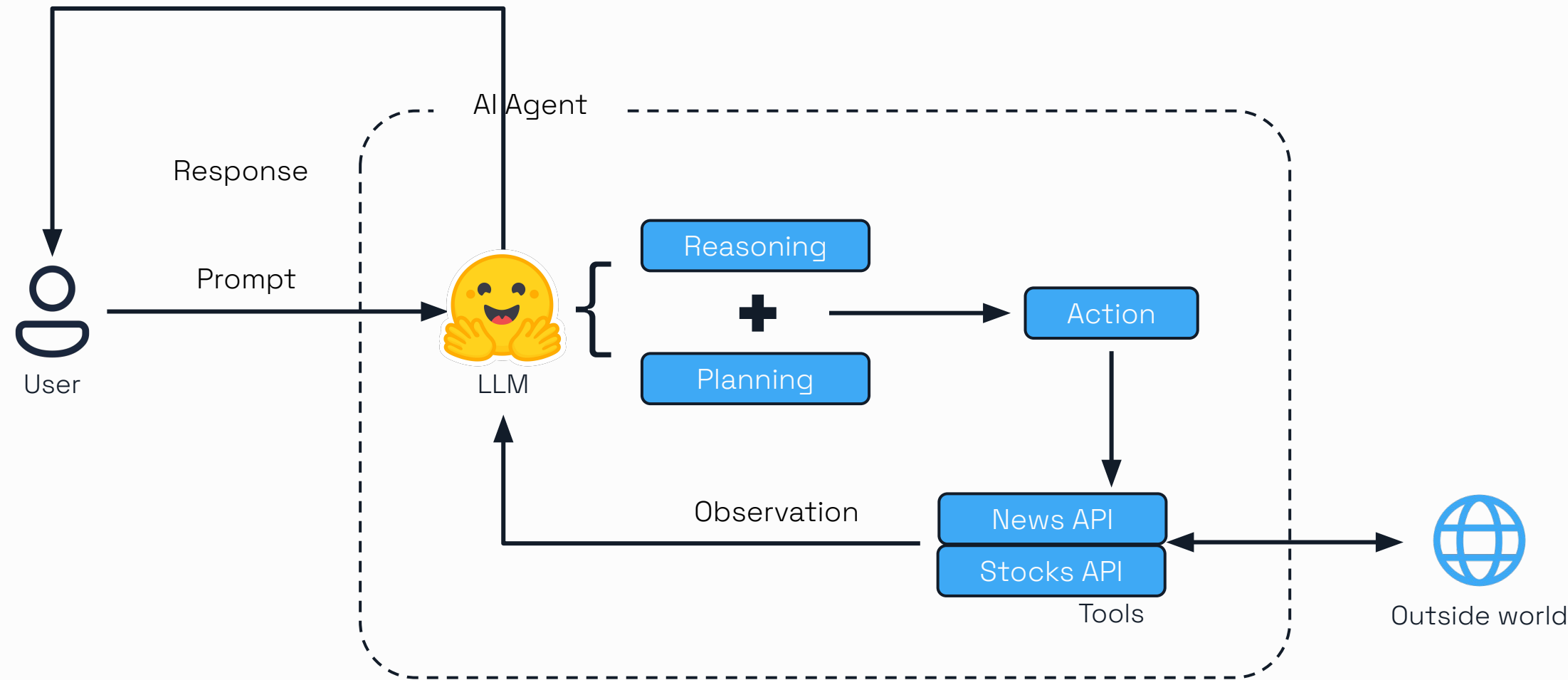
Github repo



Slides



Dapr Agents



Advanced Workshop: Multi-Agent Workflow

Local setup

- Clone [this git repo](#)
- Navigate to
“workshop/advanced_workshop/04-multi-agent-workflow-dapr-workflows/”
- Follow the instructions in the README.
- You are ready to start!

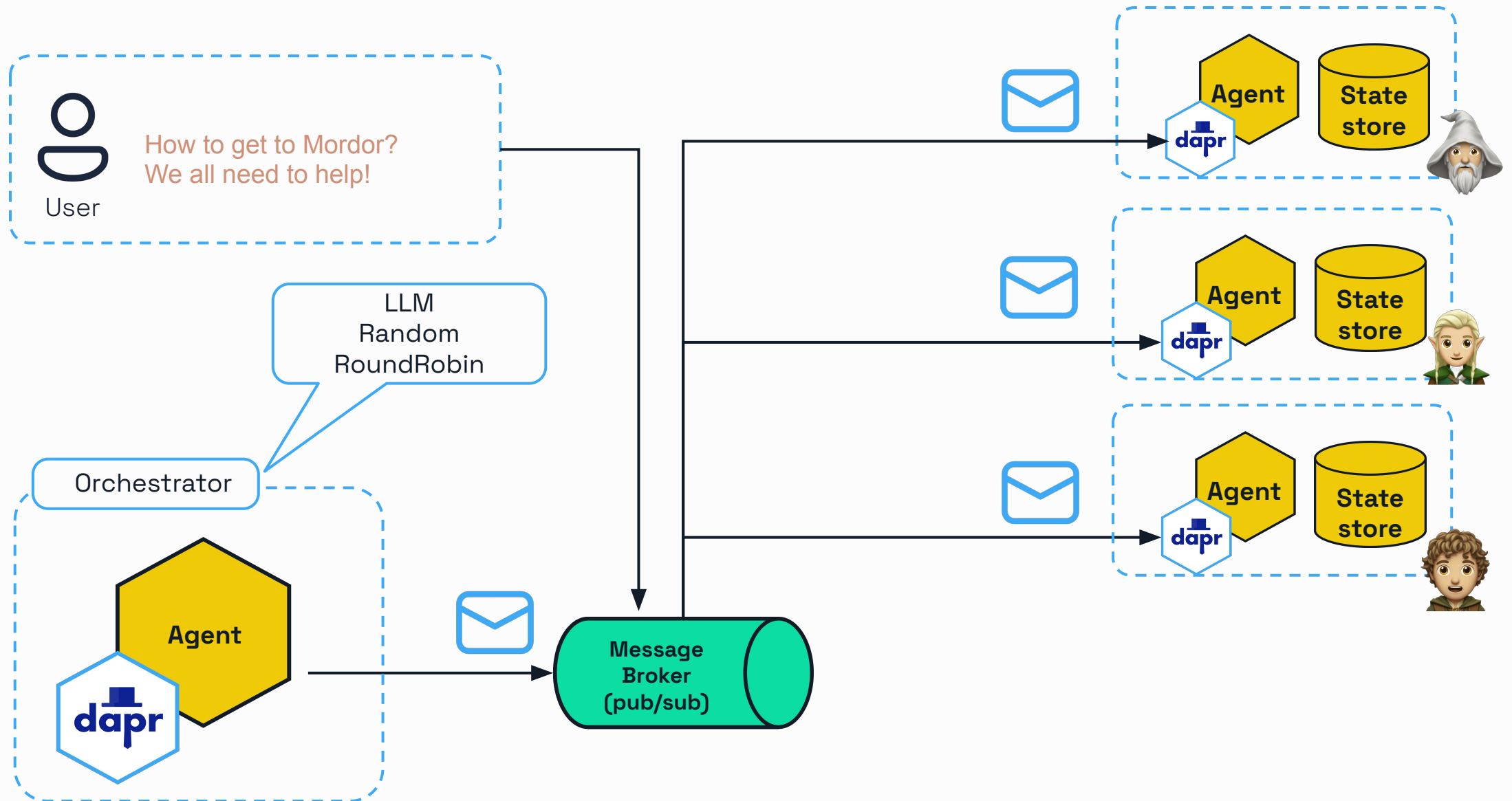
Github repo



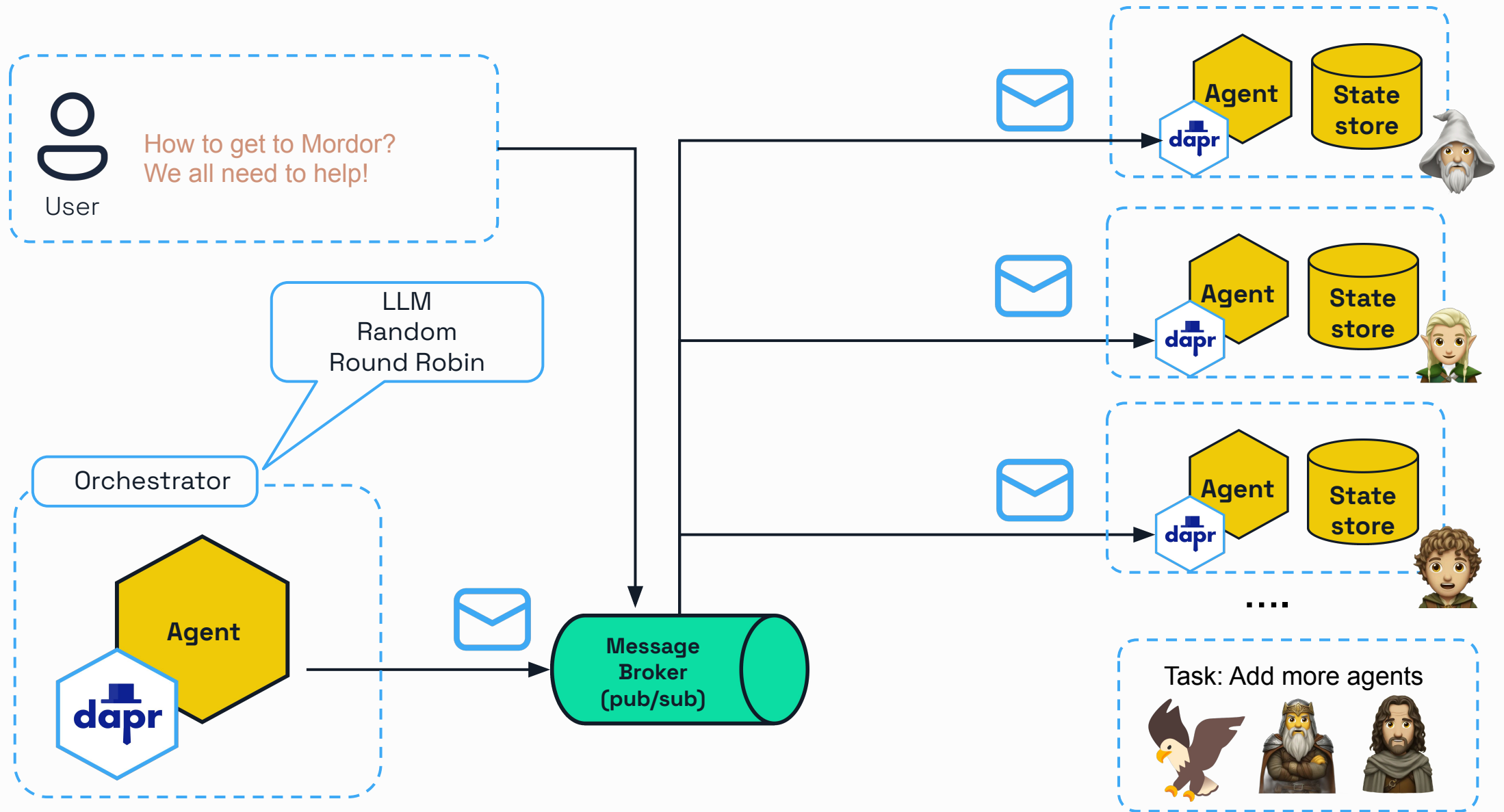
Slides



Advanced Workshop: Multi-Agent Workflow



Advanced Workshop: Multi-Agent Workflow



Dapr Resources



dapr.io



bit.ly/dapr-youtube



bit.ly/dapr-quickstarts



bit.ly/dapr-discord



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