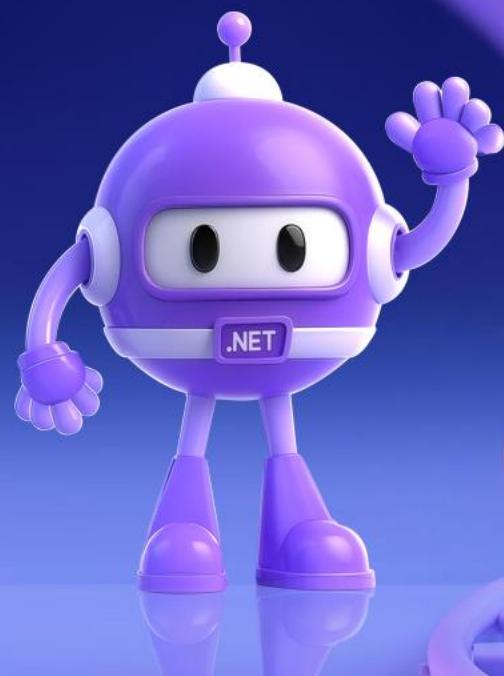


.NET Conf China 2025

改变世界 改变自己

2025 年 11 月 30 日 | 中国 上海



用 .NET 基于 Microsoft Agent Framework 的多智能体创建技巧



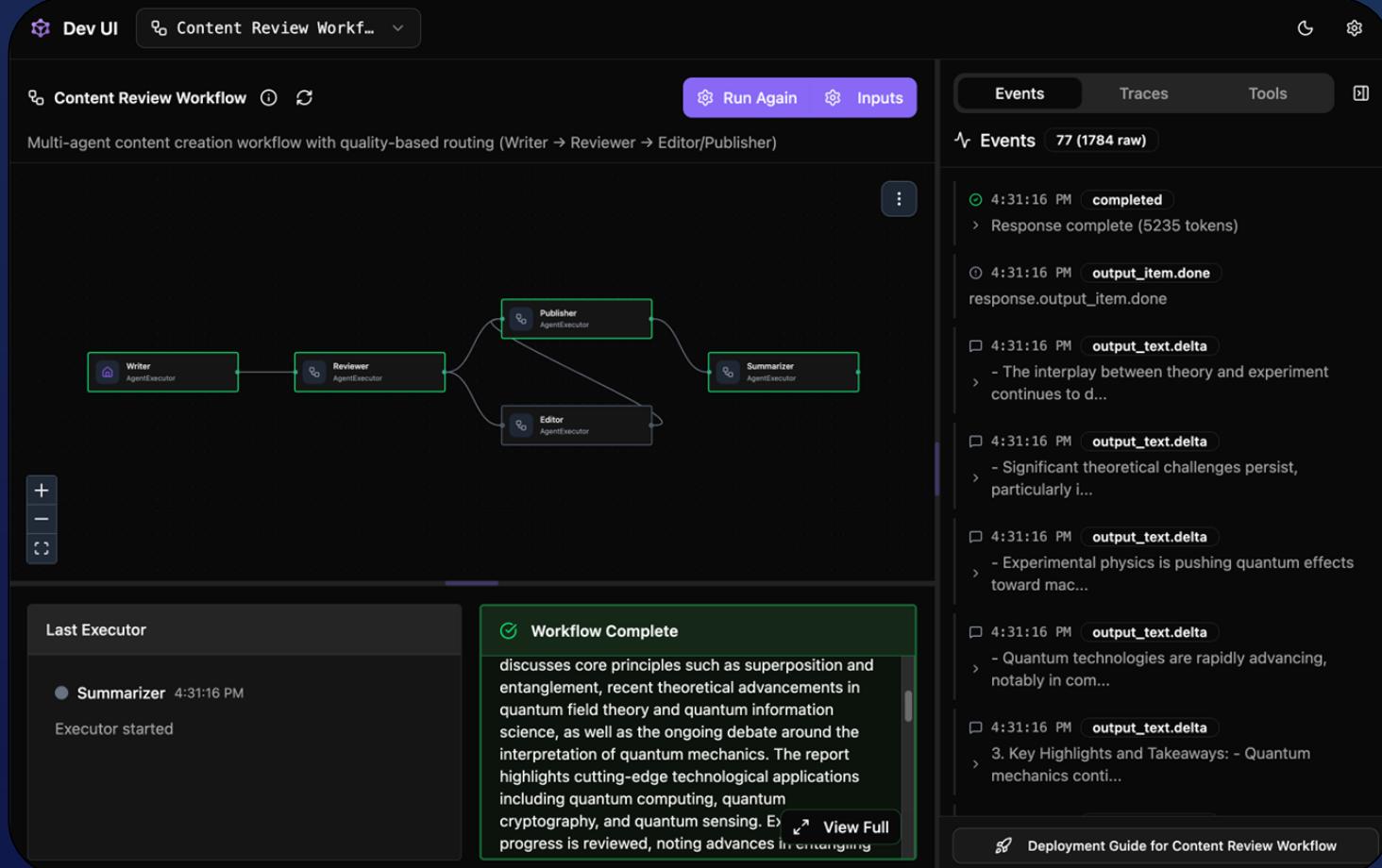
Kinfey Lo
Microsoft Senior Cloud Advocate





Microsoft Agent Framework

用于构建和编排智能 AI 代理的开源引擎



The screenshot displays the Microsoft Agent Framework's Development User Interface (Dev UI). The main area shows a workflow titled "Content Review Workflow" with four nodes: "Writer" (AgentExecutor), "Reviewer" (AgentExecutor), "Publisher" (AgentExecutor), and "Summarizer" (AgentExecutor). The flow starts with the "Writer" node, followed by the "Reviewer". From the "Reviewer", the flow splits into two parallel paths: one leading to the "Publisher" and another leading to the "Editor". Both the "Publisher" and "Editor" nodes then converge back into a single path leading to the "Summarizer".

On the left side, there is a sidebar with buttons for adding (+) and removing (-) nodes, as well as a copy/paste icon.

At the bottom left, a "Last Executor" panel shows the "Summarizer" node was the last executor at 4:31:16 PM, with the message "Executor started".

At the bottom right, a "Workflow Complete" panel contains a summary of the workflow's output:

discusses core principles such as superposition and entanglement, recent theoretical advancements in quantum field theory and quantum information science, as well as the ongoing debate around the interpretation of quantum mechanics. The report highlights cutting-edge technological applications including quantum computing, quantum cryptography, and quantum sensing. E... [View Full Progress](#)

On the right side of the interface, there is a "Events" tab showing a list of log entries from 4:31:16 PM:

- 4:31:16 PM completed Response complete (5235 tokens)
- 4:31:16 PM output_item.done response.output_item.done
- 4:31:16 PM output_text.delta - The interplay between theory and experiment continues to d...
- 4:31:16 PM output_text.delta - Significant theoretical challenges persist, particularly i...
- 4:31:16 PM output_text.delta - Experimental physics is pushing quantum effects toward mac...
- 4:31:16 PM output_text.delta - Quantum technologies are rapidly advancing, notably in com...
- 4:31:16 PM output_text.delta 3. Key Highlights and Takeaways: - Quantum mechanics conti...

Below the events, there is a "Deployment Guide for Content Review Workflow" link.

融合两种框架

Microsoft Agent Framework



Semantic Kernel

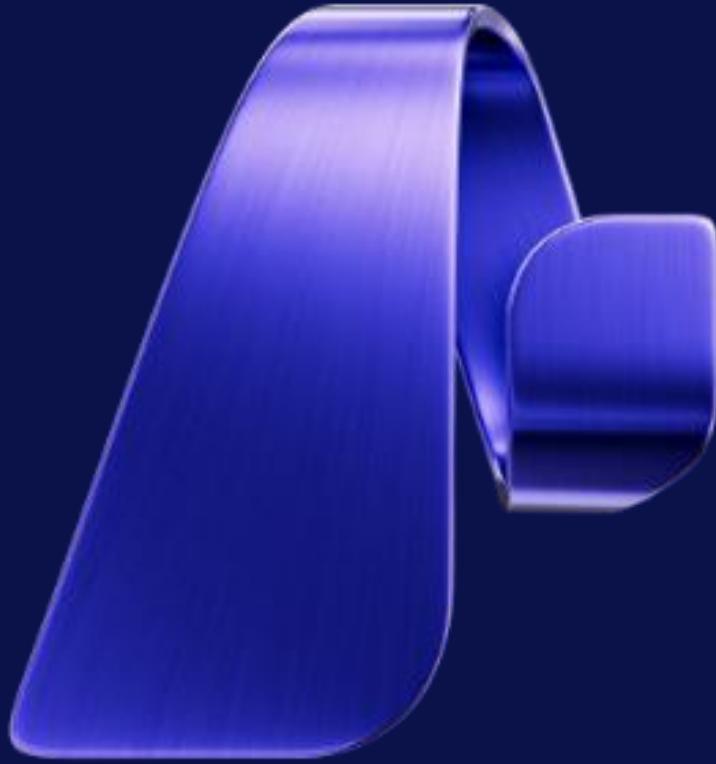
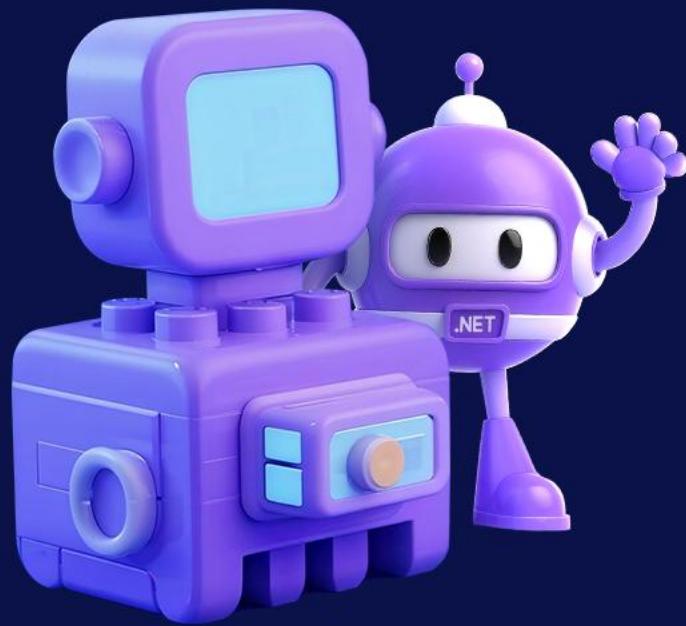
完整的 SDK 旨在轻松建立 AI 智能体，非常适合单智能体，并且可以透过与 AutoGen 整合扩展到多智能体



AutoGen

强大的多智能体研究框架，具有预先建立的对话编排模式，用于处理复杂的智能体系统





Microsoft Foundry



stability.ai Stability

Hugging Face

Industry Models



Microsoft Foundry

AI Agent Ecosystem

Agent catalog

Ready-made agents to kickstart your agent workforce

Microsoft Agent Framework

Client SDKs for enterprise and production agentic systems

Agent tools

Orchestration

Channels

Authoring Tools

Visual Studio

GitHub

Knowledge



Microsoft Fabric



Azure Cosmos DB



SharePoint



Microsoft Graph



Azure AI Search



Microsoft Bing

Enterprise Trust

VNet deployments

OBO Auth

BYO-resources

Managed Identities

Foundry Agent Service

Deploy and manage agents with fully-managed runtime

Multi-agent workflows

Built-in threads

Long-term memory

Evaluation

Tracing & Monitoring

Governance + Safety

Foundry Labs

Muse

Magnetic-One

Aurora

OmniParser

Open Ecosystem



Connectors



Amazon Bedrock



LangChain



Pinecone



Azure Functions

关于AI Agent 的几个要点



创建



编排



评估



测试

Framework



Microsoft Agent Framework

关键点



Agent Framework 的几个要素

Agents



Microsoft Foundry

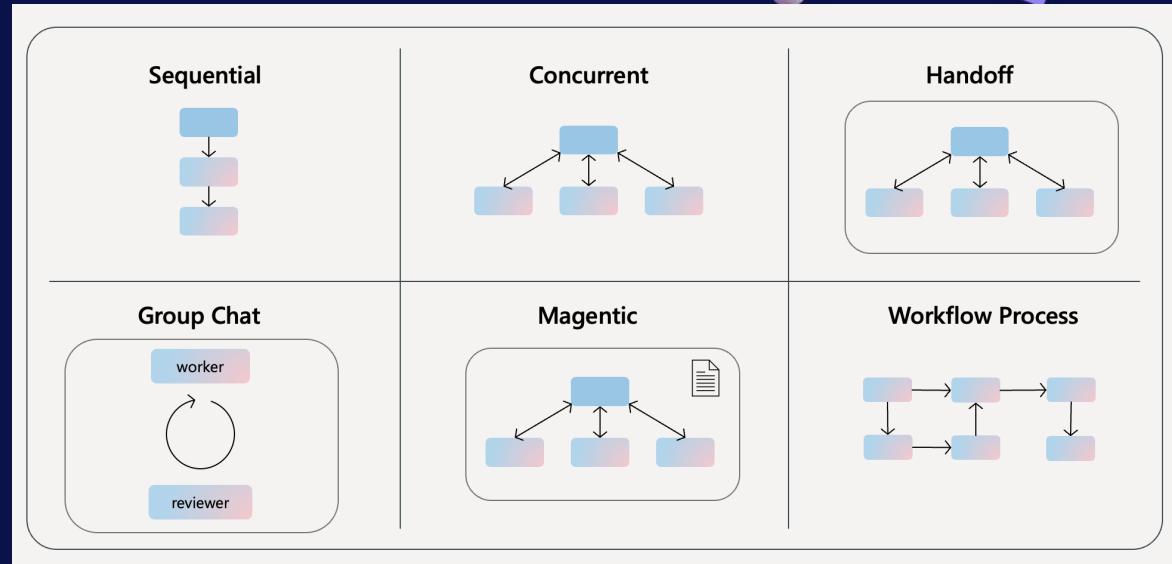


OpenAI

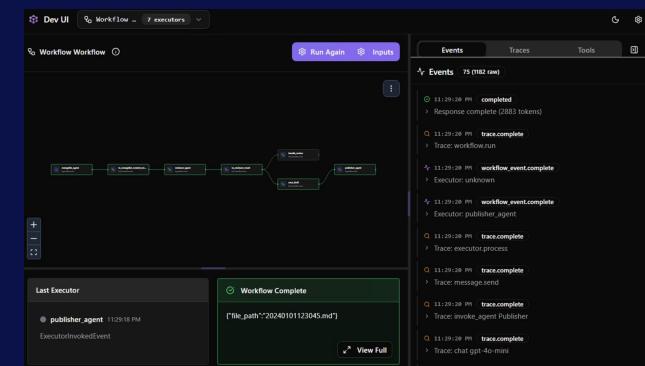


3rd party local tools

Workflow

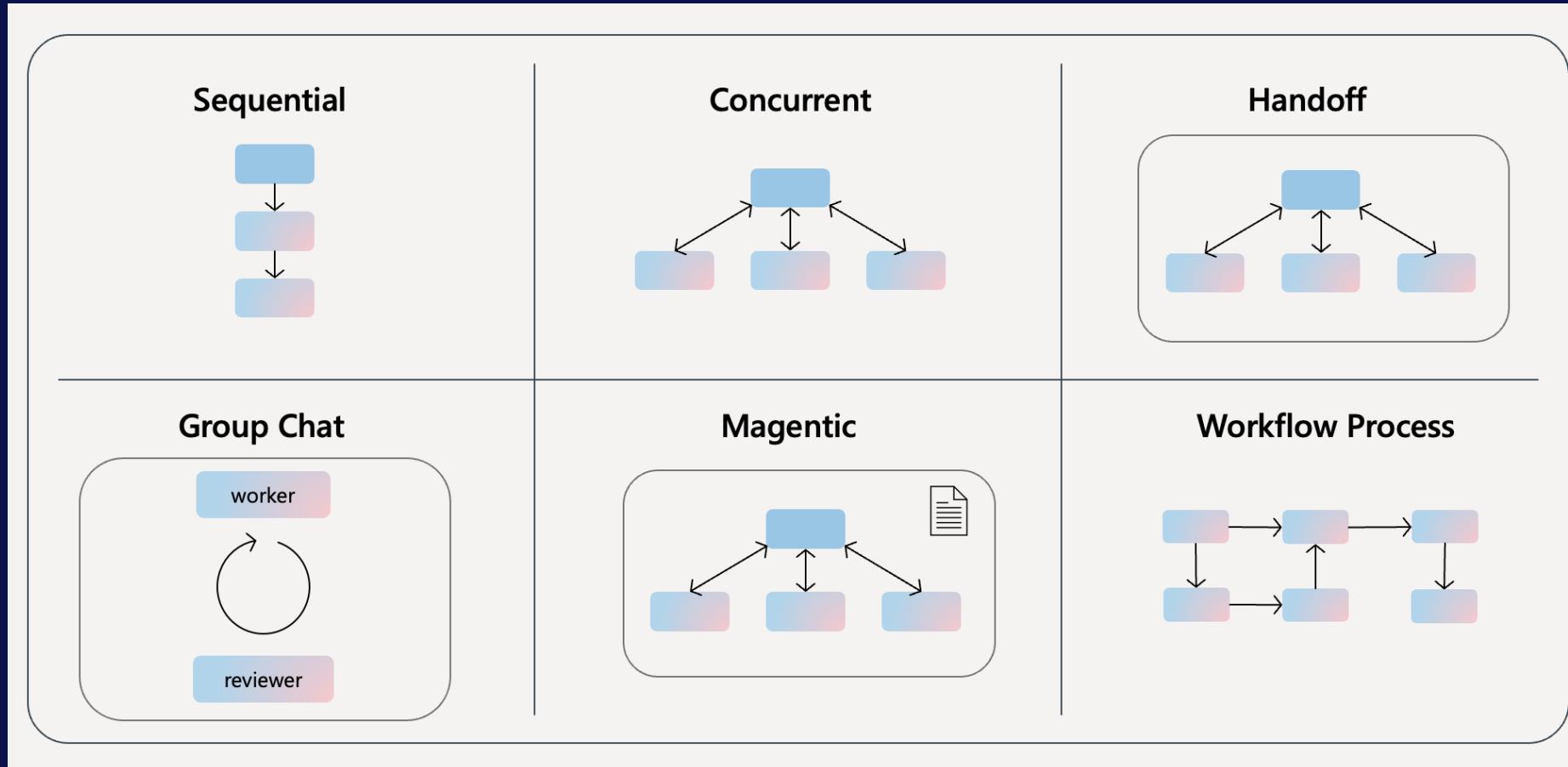


DevUI





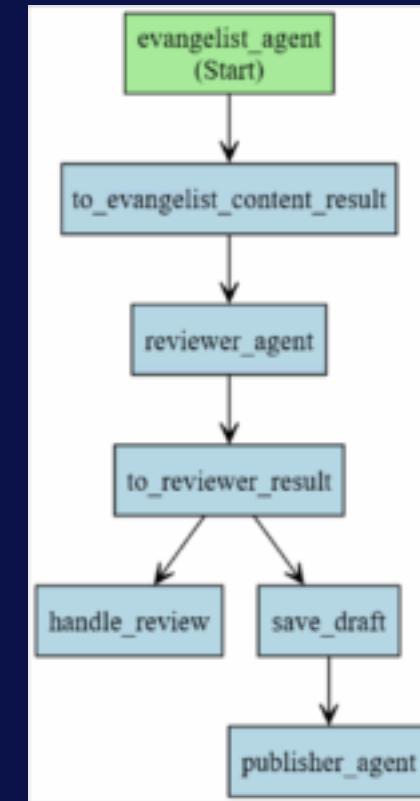
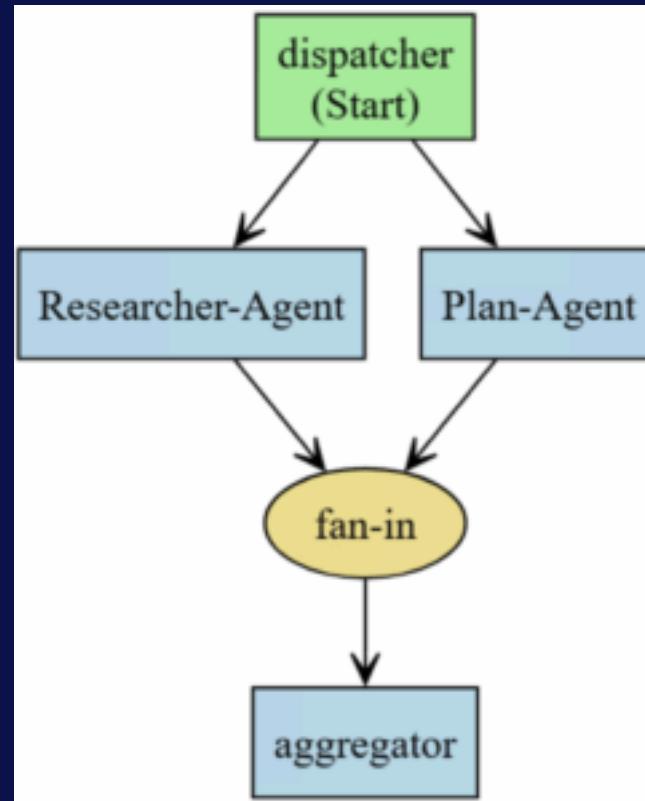
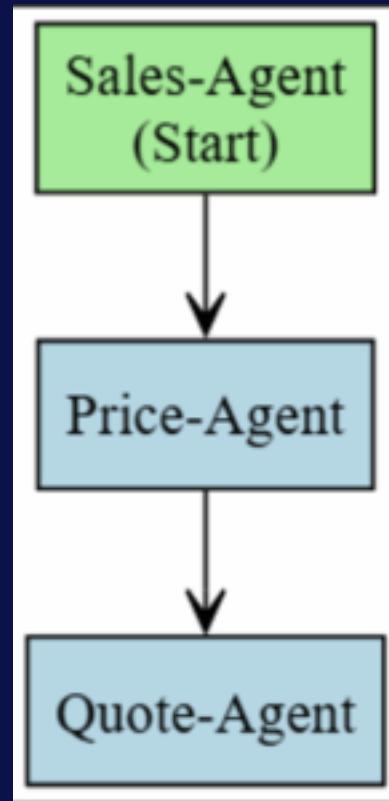
如何有效编排多智能体



透过 Agent Framework Workflow 来组织我们的业务

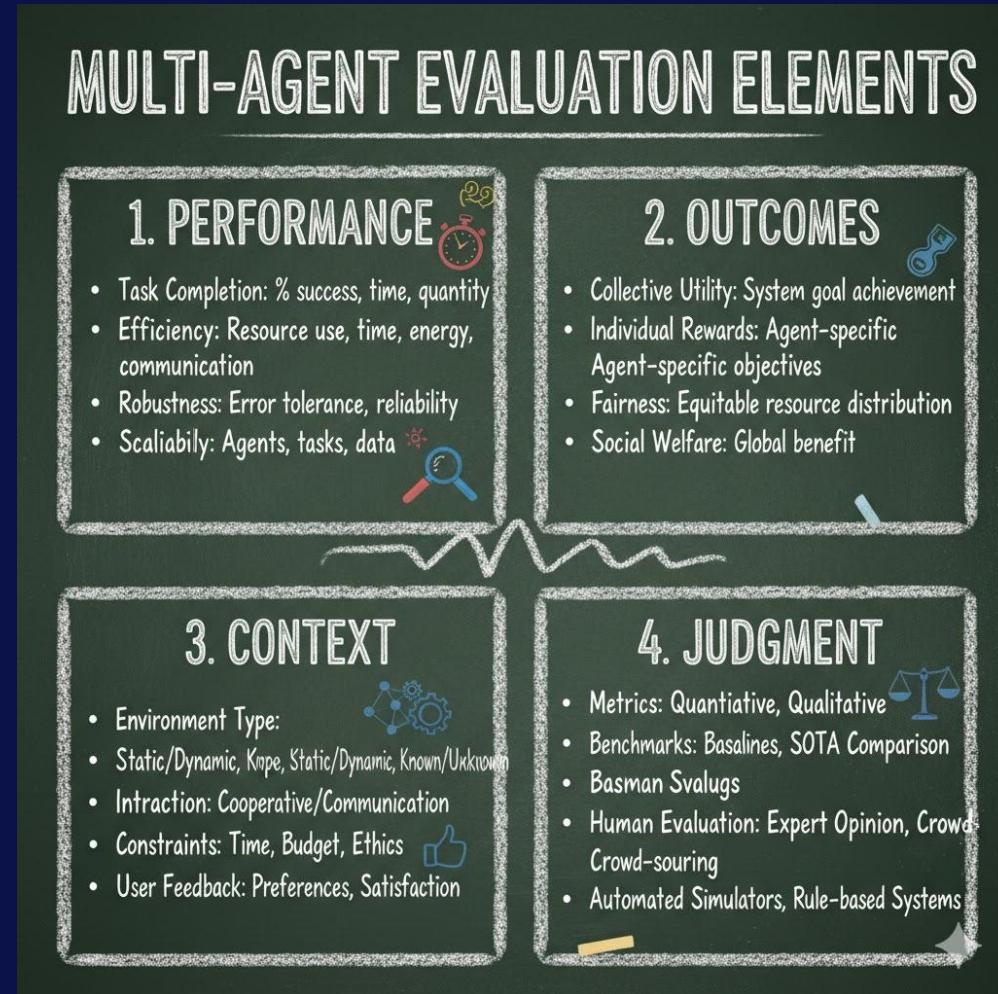


Workflow



如何评估智能体

- 效能
- 结果
- 情境
- 判断



开发环境 - 透过 Agent Framework Workflow 来评估智能体

The screenshot displays a developer interface for a workflow system, likely using the .NET Agent Framework.

Top Bar: Dev UI, Workflow ... (with a dropdown showing 7 executors), Run Again, Inputs, and a settings gear icon.

Workflow Diagram: Shows a sequence of nodes: `analyze_agent` → `to_analyze_content_re...` → `reviewer_agent` → `to_review_result`. From `to_review_result`, two parallel paths lead to `handle_review` and `case_draft`. Both of these then converge into a final path leading to `publisher_agent`.

Last Executor: Shows the `publisher_agent` completed at 11:29:18 PM.

Workflow Complete: A green box indicates "Workflow Complete" with the message content: `{"file_path": "20240101123045.md"}`. A "View Full" button is present.

Event Log: A sidebar titled "Events" shows 75 raw events from 11:29:20 PM. The events include:

- Completed: Response complete (2883 tokens)
- trace.complete: Trace: workflow.run
- workflow_event.complete: Executor: unknown
- workflow_event.complete: Executor: publisher_agent
- trace.complete: Trace: executor.process
- trace.complete: Trace: message.send
- trace.complete: Trace: invoke_agent Publisher
- trace.complete: Trace: chat gpt-4o-mini

开发环境 - 透过 Red Team 来评估智能体



GitHubShopAgent-Redteam-Scan

Not satisfied with results?

Report Data Logs

⟳ Refresh ⬇ Export result

AI red teaming scan details

Status	Tags	Description
Completed	No tags	See all properties
Create time		Raw JSON
Oct 24, 2025 1:40 PM		
Created by		
kinfeylo (BAM!)		

Metric dashboard

Attack risk category Attack complexity

Run

GitHubShopAgent-Redteam-Scan

Create and Manage (Low-Code)

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Microsoft Foundry



Hiring Manager



GPT-4.1-mini



Apply Manager



Claude-Sonnet-4-5

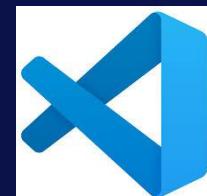
Microsoft Foundry Workflow



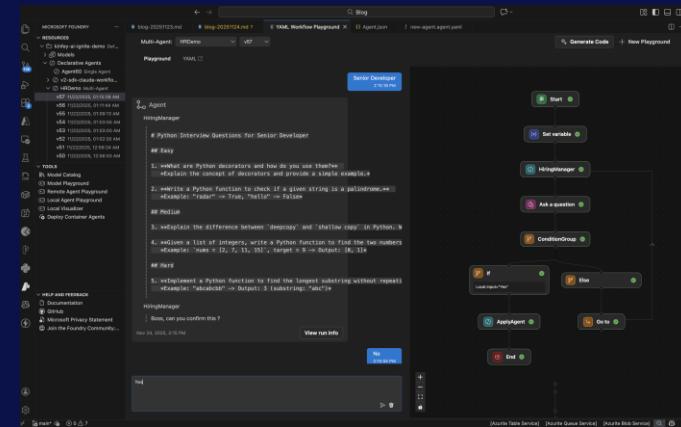
Microsoft Agent Framework

```
1 // Create the workflow from the declarative YAML. Includes definition of the
2 // workflow and configuration options.
3 // Create the workflow from the declarative YAML. Includes definition of the
4 // workflow and configuration options.
5 // Create the workflow from the declarative YAML. Includes definition of the
6 // workflow and configuration options.
7 // Create the workflow from the declarative YAML. Includes definition of the
8 // workflow and configuration options.
9 // Create the workflow from the declarative YAML. Includes definition of the
10 // workflow and configuration options.
11 // Create the workflow from the declarative YAML. Includes definition of the
12 // workflow and configuration options.
13 // Create the workflow from the declarative YAML. Includes definition of the
14 // workflow and configuration options.
15 // Create the workflow from the declarative YAML. Includes definition of the
16 // workflow and configuration options.
17 // Create the workflow from the declarative YAML. Includes definition of the
18 // workflow and configuration options.
19 // Create the workflow from the declarative YAML. Includes definition of the
20 // workflow and configuration options.
21 // Create the workflow from the declarative YAML. Includes definition of the
22 // workflow and configuration options.
23 // Create the workflow from the declarative YAML. Includes definition of the
24 // workflow and configuration options.
25 // Create the workflow from the declarative YAML. Includes definition of the
26 // workflow and configuration options.
27 // Create the workflow from the declarative YAML. Includes definition of the
28 // workflow and configuration options.
29 // Create the workflow from the declarative YAML. Includes definition of the
30 // workflow and configuration options.
31 // Create the workflow from the declarative YAML. Includes definition of the
32 // workflow and configuration options.
33 // Create the workflow from the declarative YAML. Includes definition of the
34 // workflow and configuration options.
35 // Create the workflow from the declarative YAML. Includes definition of the
36 // workflow and configuration options.
37 // Create the workflow from the declarative YAML. Includes definition of the
38 // workflow and configuration options.
```

Development (Code)



Microsoft Foundry VSCode Extension



更多资源

Microsoft Agent Framework

<https://github.com/microsoft/agent-framework>

Microsoft Agent Framework Samples

<https://github.com/microsoft/agent-framework-samples>

企业级的多智能体解决方案

<https://github.com/microsoft/aitour26-BRK445-building-enterprise-ready-ai-agents-with-azure-ai-foundry>

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THANK YOU