

Kagent

Rethinking the Open Source Agent Stack



1. Brief Introduction
2. Why Kagent
3. Next Steps



Introduction



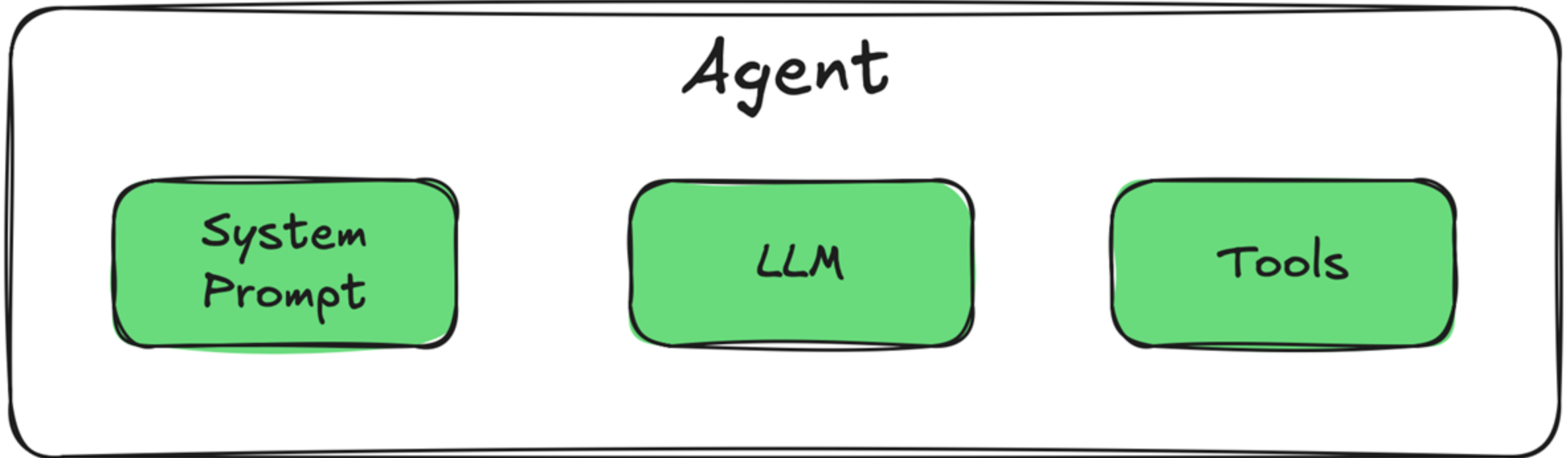
Let's start from the beginning

1. Who is solo.io?
2. How can we provide value to our customers and the community?
3. What was missing?



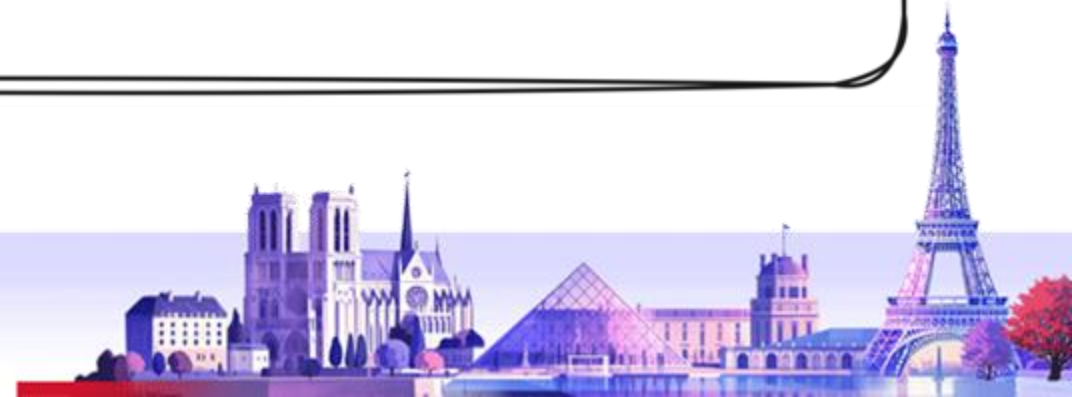
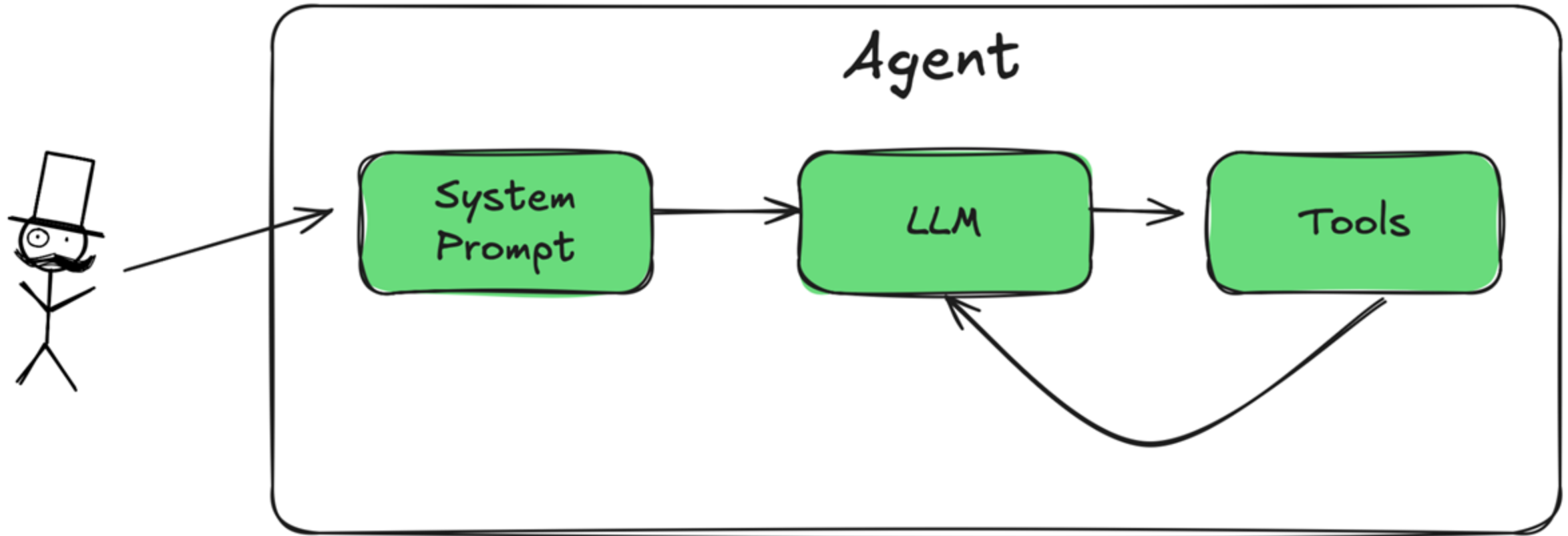
Breaking down Agents

Can we make them even simpler?

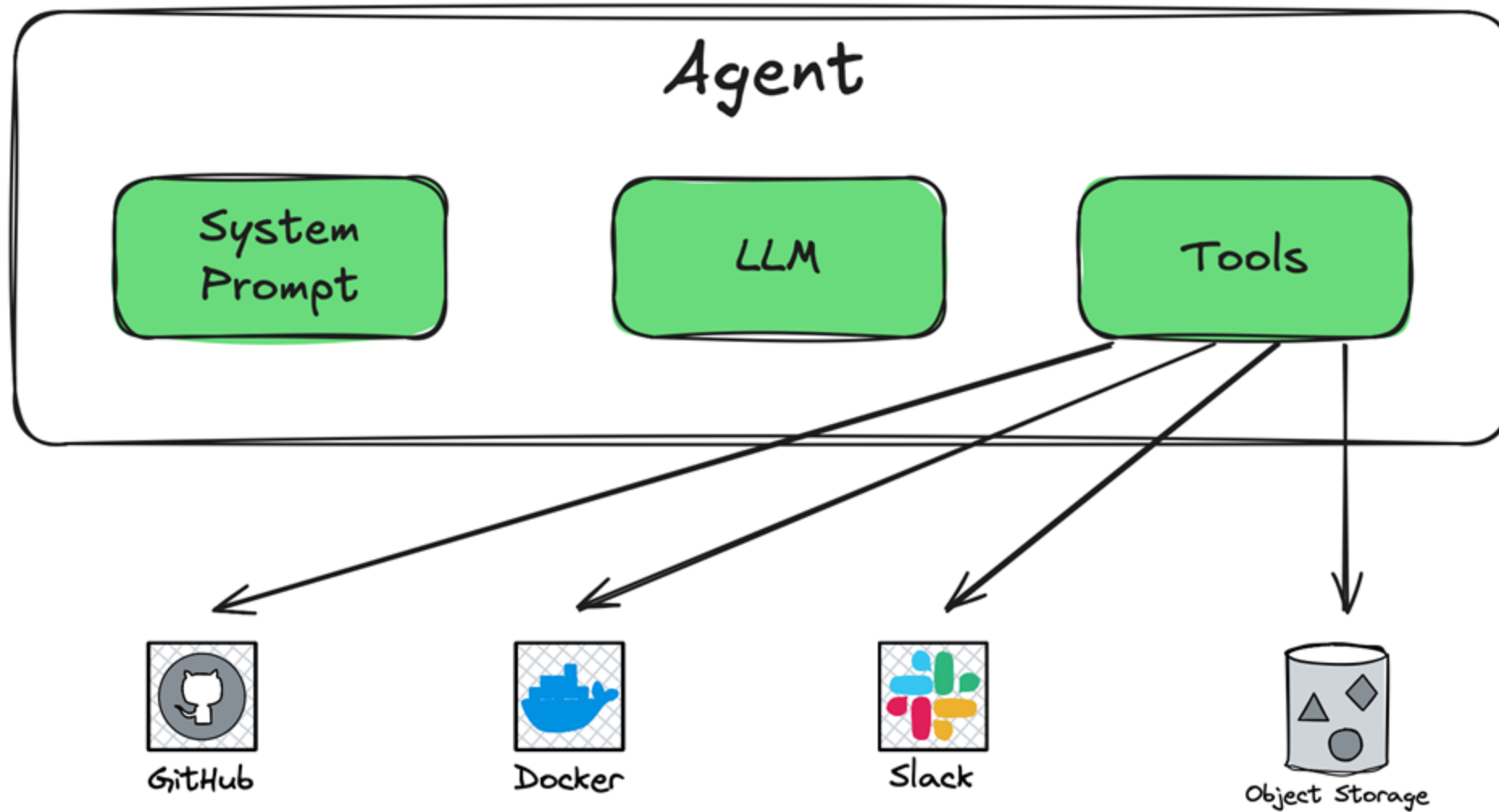


The core loop

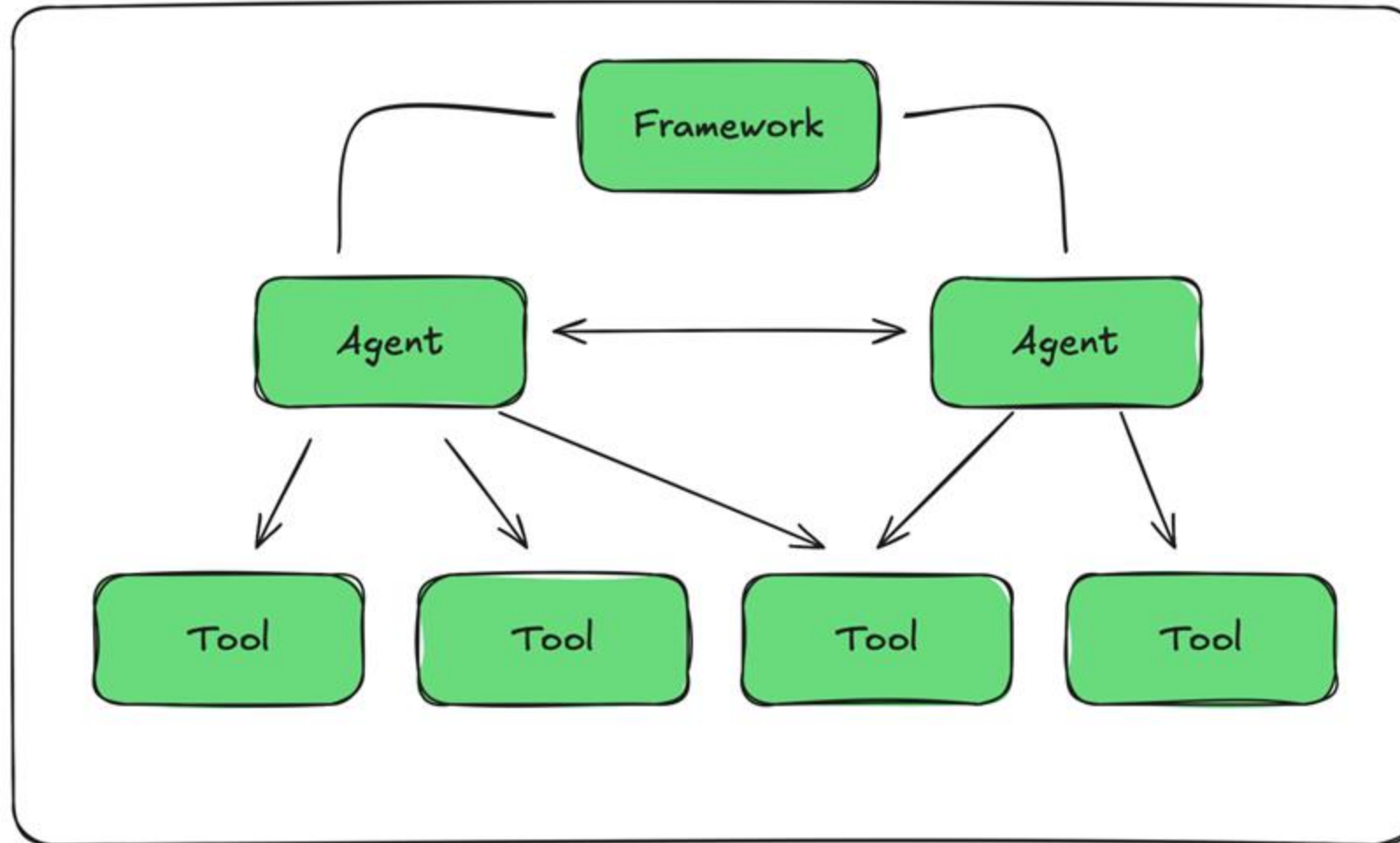
Can we optimize the 90% use-case?



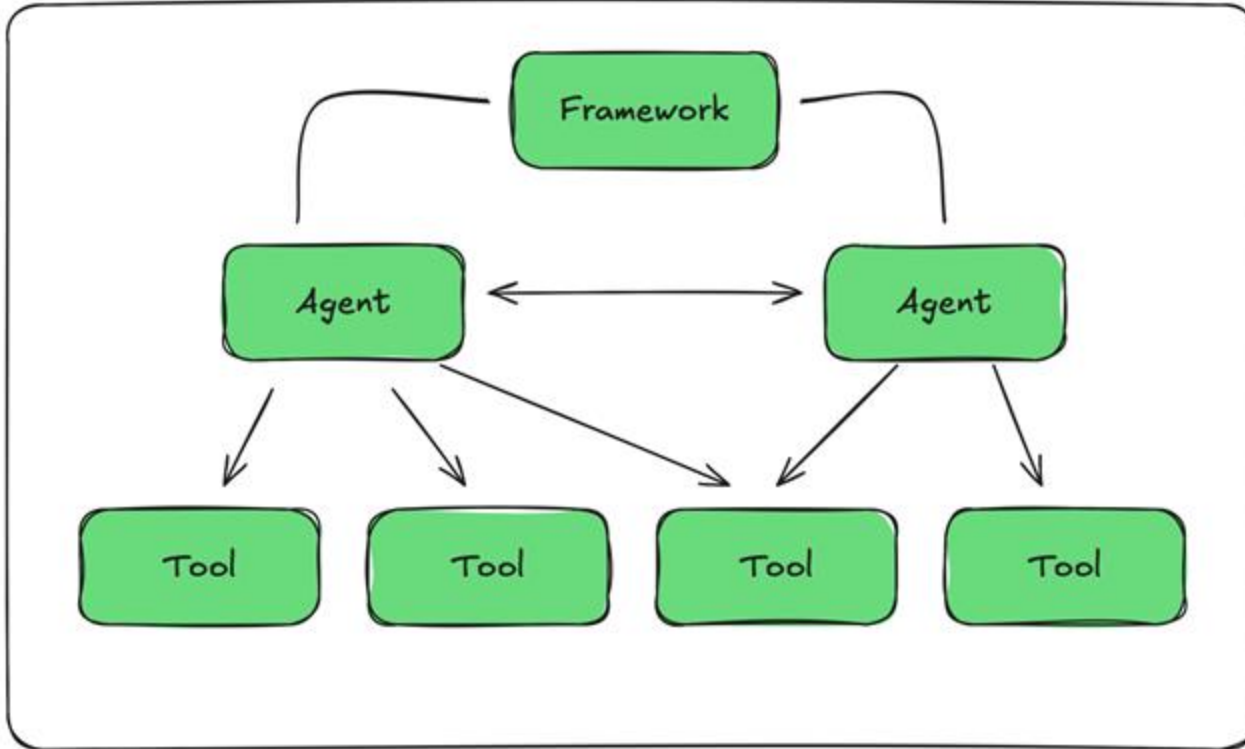
Tools



7 layer cake (agents)



Putting it all together



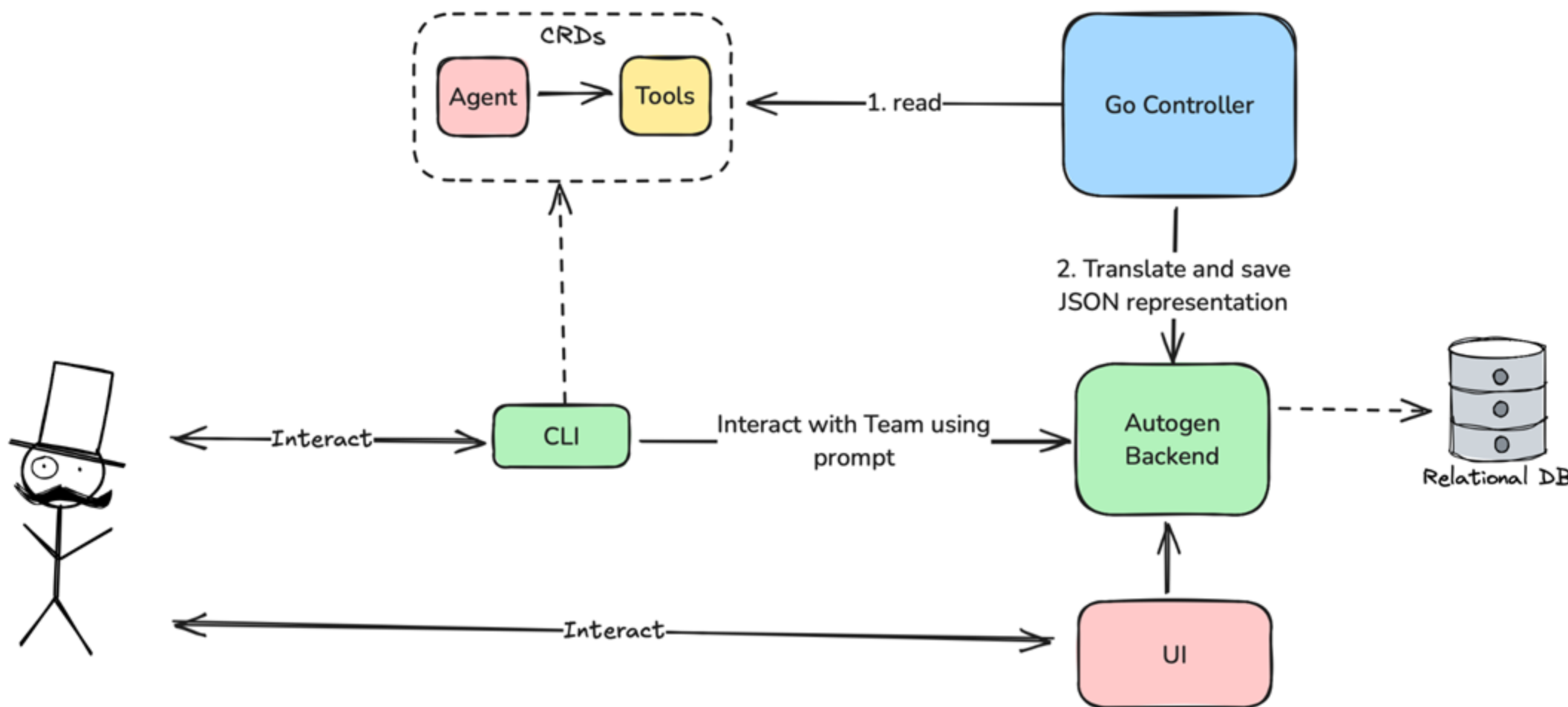
- Declarative
- Traffic Control
- Orchestration
- Security
- Scaling
- Observability



Kubernetes

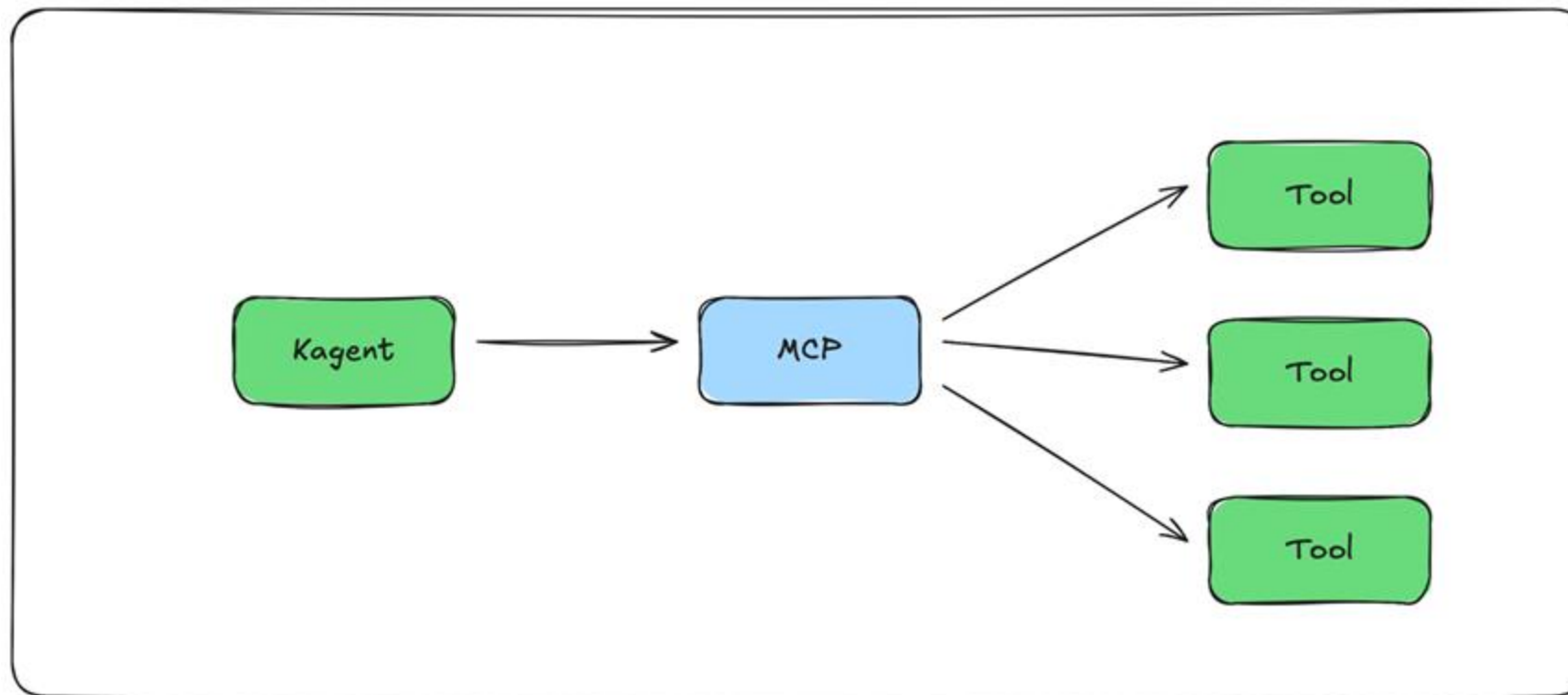


Kagent



MCP!

GOSIM



Kubernetes



Example

```
apiVersion: kagent.dev/v1alpha1
kind: Agent
metadata:
  name: nina-replacement-agent
  namespace: kagent
spec:
  description: This agent can use a single tool to retrieve the contents of a webpage.
  modelConfigRef: default-model-config
  systemMessage: |-
    You're a friendly and helpful agent that uses the fetch tool to retrieve webpage contents.

    # Instructions
    - If user question is unclear, ask for clarification before running any tools
    - Always be helpful and friendly
    - If you don't know how to answer the question DO NOT make things up
      respond with "Sorry, I don't know how to answer that" and ask the user to further clarify the question

    # Response format
    - ALWAYS format your response as Markdown
    - Your response will include a summary of actions you took and an explanation of the result
  tools:
    - type: McpServer
      mcpServer:
        toolServer: mcp-toolserver
        toolNames:
          - fetch
```

```
apiVersion: kagent.dev/v1alpha1
kind: ToolServer
metadata:
  name: mcp-toolserver
  namespace: kagent
spec:
  description: Fetches a website and returns its content
  config:
    sse:
      url: http://mcp-website-fetcher.kagent.svc.cluster.local/sse
```



THANK YOU

