



# Arize AI - Agent Mastery Course





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## Module 4: Tools and MCP

# What are AI Agent Tools?

External capabilities agents can call to extend reasoning and action beyond the base LLM.

## Categories of Tools



Data Access



Extraction



Analysis



Execution

## Benefits

- Provide grounded knowledge
- Enable real-world actions
- Allow specialization & modularity
- Support scalability

# Why Tools Matter in AI Agents

- Extend Capabilities Beyond the Model
- Bridge Knowledge Gaps with External Data
- Enable Automation of Workflows

## Agent tool calls examples



Code generation



Data Query



MCP Call



Planning

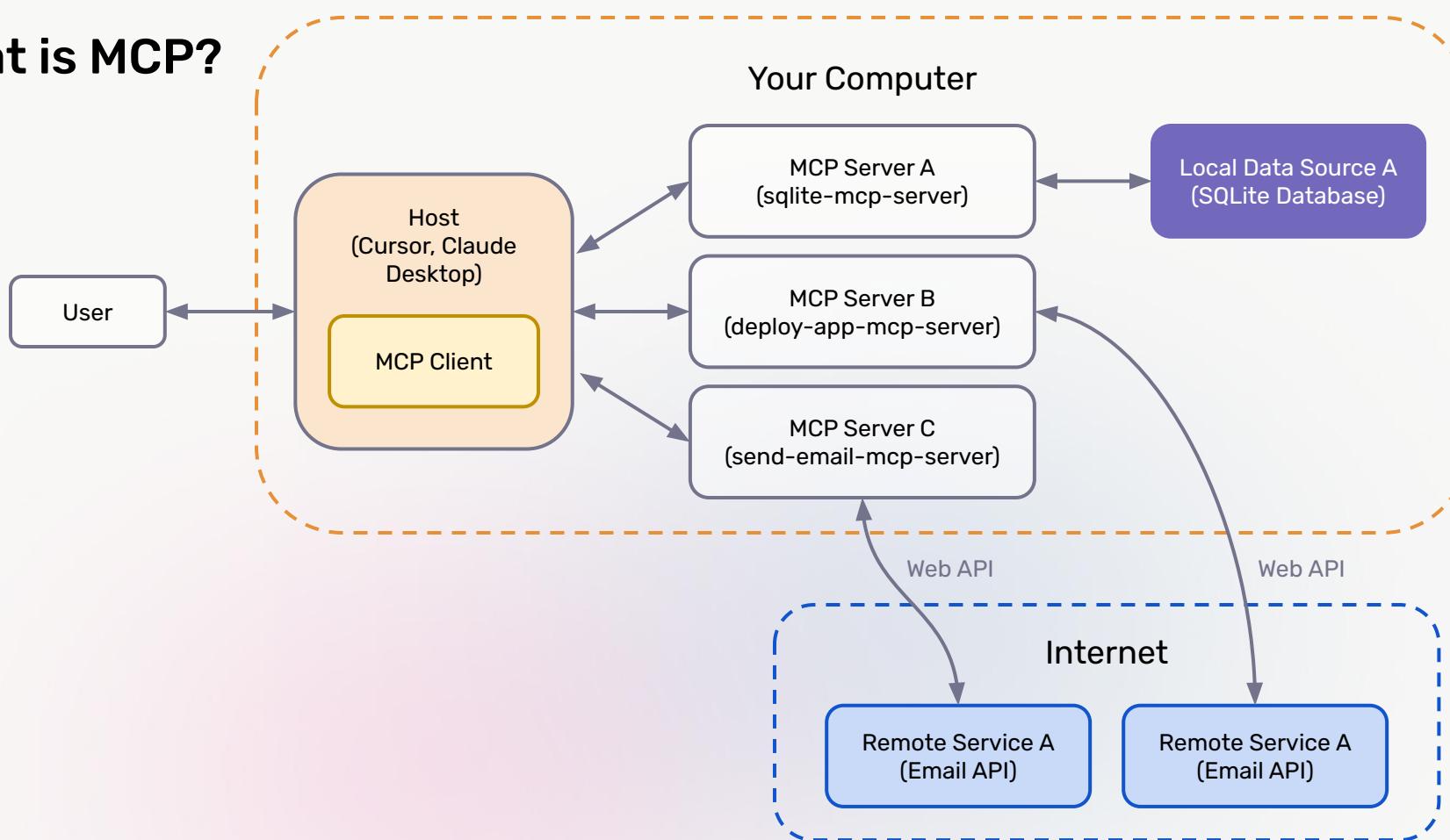


Web search



... many more

# What is MCP?



# Lab 4: Show difference in tools and MCP for the agent

- Now, we can see the difference in your agent for:
  - RAG
  - MCP
- Planning + Reasoning for an orchestrator agent
  - Which sub agents should be called by the orchestrator?
  - Evals:
    - Was the context preserved
    - Correct agent selected

# Lab 4: Implement tools & MCP

- Navigate to labs/lab4\_tools\_and\_mcp