

Integrating with AI using Azure Logic Apps

Explore how Azure Logic Apps can be used to create intelligent automated workflows

PRAIRIE DEV CON

WEB | DEV | CLOUD | AI



Agenda for today

1.	Introduction & Goals	2 min
2.	Terminology & Overview of LLMs	10 min
4.	Autonomous Agents	10 min
5.	Retrieval Augmented Generation	10 min
6.	Human in the Loop	5 min
7.	MCP Servers	5 min
8.	Multi-Agent patterns	10 min
9.	Questions	5 min
10.	Final Thoughts	2 min

Introduction



Cameron McKay

Manager

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Cameron McKay is a Microsoft Azure Integration MVP with a strong background in web, integration, and business analysis. Cameron is a thought leader in Azure integration services and has spoken at numerous conferences on topics related to Microsoft Azure. Cameron has blended his expertise in software development and business analysis to deliver a variety of enterprise web, integrations and cloud applications using the Microsoft technology stack.

Cameron spends his off-hours as a tabletop board game enthusiast, cooking up delicious meals, watching anime and training his husky dogs.



**Microsoft
Azure**

Goals for today

Leave you with two ideas and impressions...

01

Integrate

The SaaS platforms that exist in your organizations IT landscape can be leveraged in AI with Azure Logic Apps

02

Implement

Provide you with a jumpstart to implement integrations with AI within your organization's existing IT infrastructure using Azure Logic Apps.

What do these have in common?

Railroad Tracks





















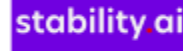



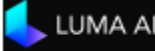










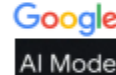



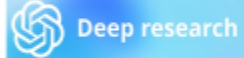




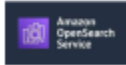



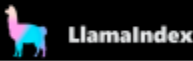













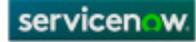








Welding

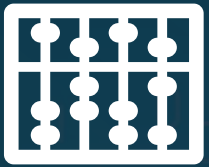
Ferry

Bridge

Tunnel

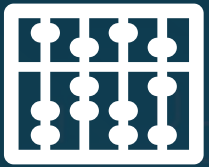
GenAI Landscape

Conversational AI & Associated Large Language Models (LLMs)						AI Presentation & Design		AI Avatars
 ChatGPT o3 GPT 4.5 GPT 4.1	 Gemini Gemini 2.5 Pro Gemini 2.5 Flash Gemini 2.0 Flash	 Claude 3.7 Sonnet 3.5 Sonnet 3 Opus	 Grok Grok 3 Grok 3 Mini Grok 2	 Meta AI LLaMA 4 Maverick LLaMA 3.3 49B LLaMA 3.1 70B	 deepseek DeepSeek V3 DeepSeek R1 DeepSeek V2.5	 Gamma  Canva	 Adobe Firefly  beautiful.ai	 tavus  HeyGen  synthesia
Text-to-Speech		AI Image Generation		AI Video Creation		Meeting Transcription		
 Eleven Labs  MURF.AI	 Google Cloud Text to Speech  Text-to-Speech	 GPT 4o IMAGE GENERATION  Midjourney	 Gemini Imagen 3  stability ai	 Google Veo 2  runway	 Sora  LUMA AI	 Otter.ai  Fireflies	 FATHOM  zoom AI Companion	
AI Collaboration, Productivity, & Enterprise Search				AI Search		AI Research Summarization		
 ATLASSIAN Intelligence	 Notion	 glean	 coveo	 Amazon Kendra	 AI Search  Google AI Mode  ChatGPT Search	 Gemini Deep Research  NotebookLM	 Deep research  Elicit	
Vector Databases & Optimization		AI Agent Development		Agentic Automation & Orchestration				
 Pinecone  mongoDB Atlas	 redis  Amazon OpenSearch Service	 pgvector	 LangChain  crewai	 LlamaIndex  AutoGen	 n8n  zapier	 appian  UiPath  workato		
AI Platforms		Enterprise Platforms		AI Coding & Development				
 Vertex AI  Hugging Face	 Azure AI Foundry  NVIDIA AI Enterprise	 Amazon Bedrock  Amazon SageMaker	 Agentforce  servicenow	 Microsoft Copilot Studio  SAP AI Core	 CURSOR  GitHub Copilot	 bolt.new  Windsurf	 replit  manus	



LLMs

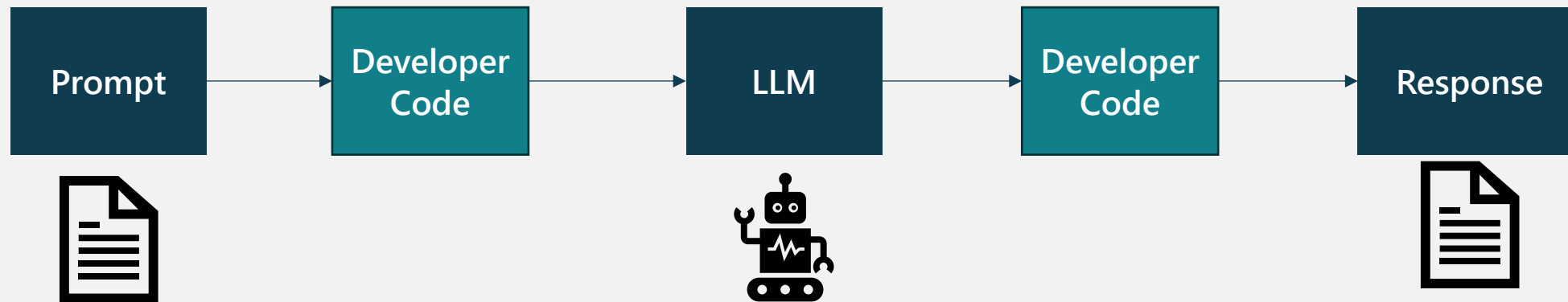
- Commercial LLMs available for use are trained on finite sets of data
- Perform searches based on pattern matching against vector datasets
- Specific commercial models are better than others at various tasks based on their training and dataset

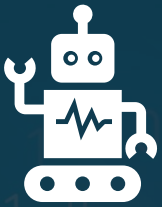


Non-Agentic

- Programmatic – Human develops control flow
- Make use of LLMs to perform actions within a controlled program flow

Non-Agentic Workflow

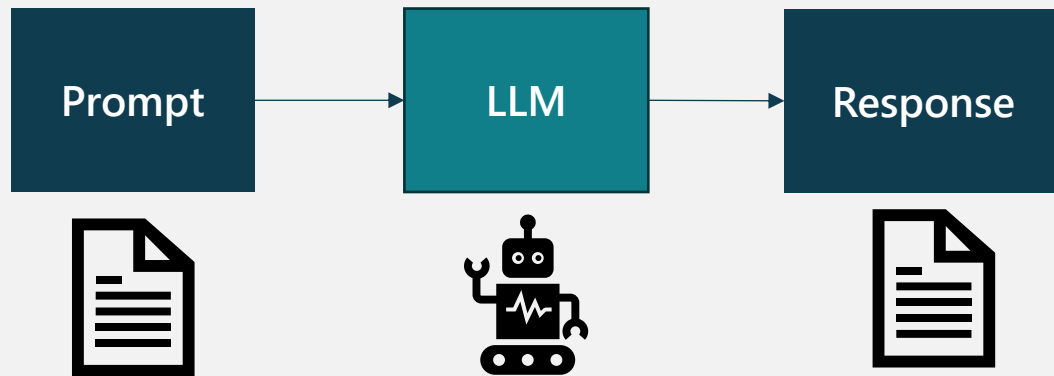




Agentic

- Moving away from developer driven control flow
- Control flow is driven by the LLM

Agentic Workflow



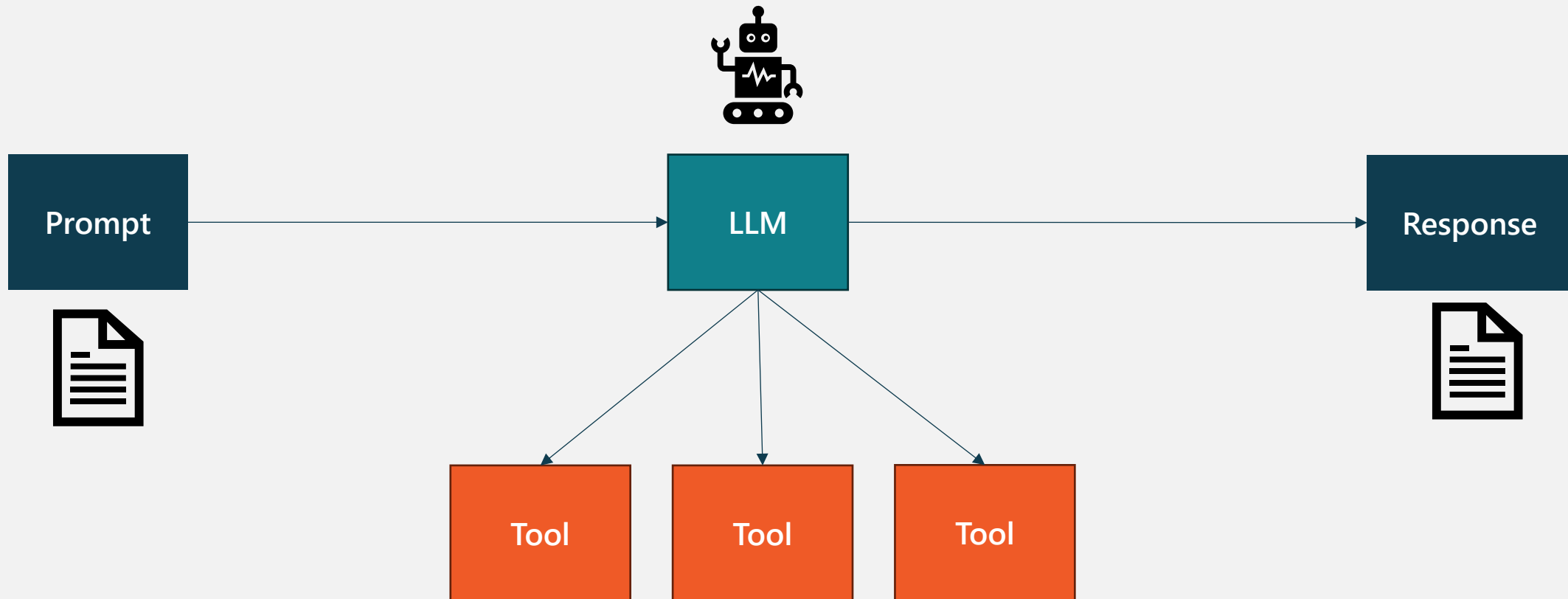
- *Reason* – Analyze the input
- *Act* – Execute actions
- *Iterate* – Refine reasoning & improve subsequent actions



Tools

- Power of agents is when we add tools through integration
- Tools provide context
- Tools provide functions

Agentic Workflow





Complexity of Integration with AI



Disparate data sources



Data security



Disparate data sources



Most organizations have an IT ecosystem with composed of SaaS platforms that do not expose data



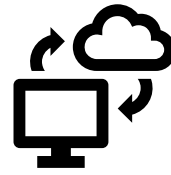
Data that we want AI to leverage is not readily available. Exposing it through traditional APIs can be time consuming and expensive.



Exposing our data securely for AI consumption is a critical



What if you could...



Leverage out of the box connectors to expose your existing systems data, so that it can be integrated with AI



Simplify AI development with out of the box AI connectors to integrate your systems with AI

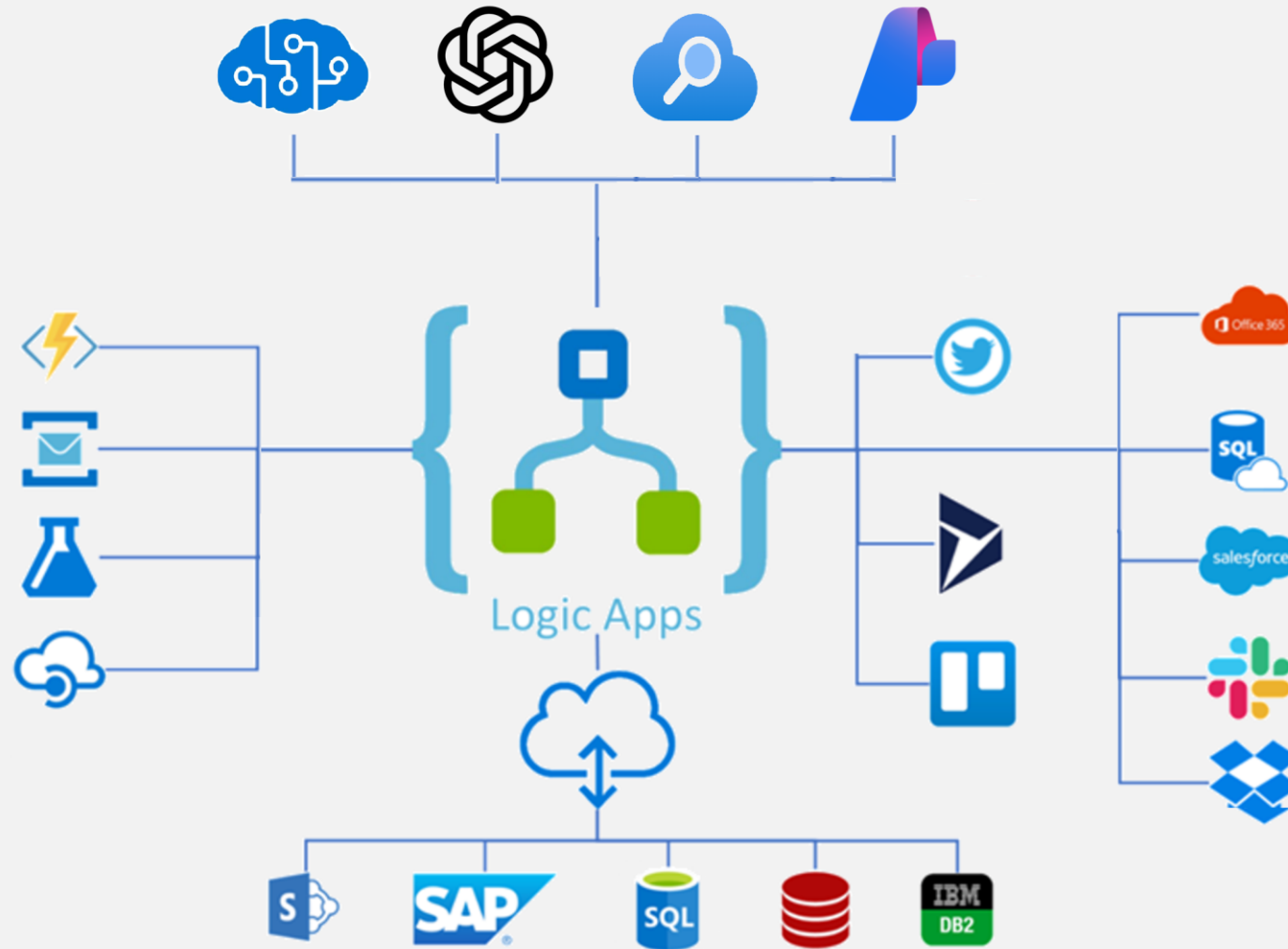


Maintain enterprise security and scaling with the tool you are using to integrate and build AI solutions

Azure Logic Apps

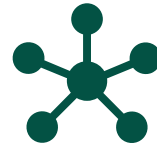


Azure Logic Apps - Connectors { }





Logic App Standard



Virtual network Integration



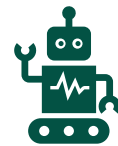
Predictable pricing with ASP



Multiple workflows

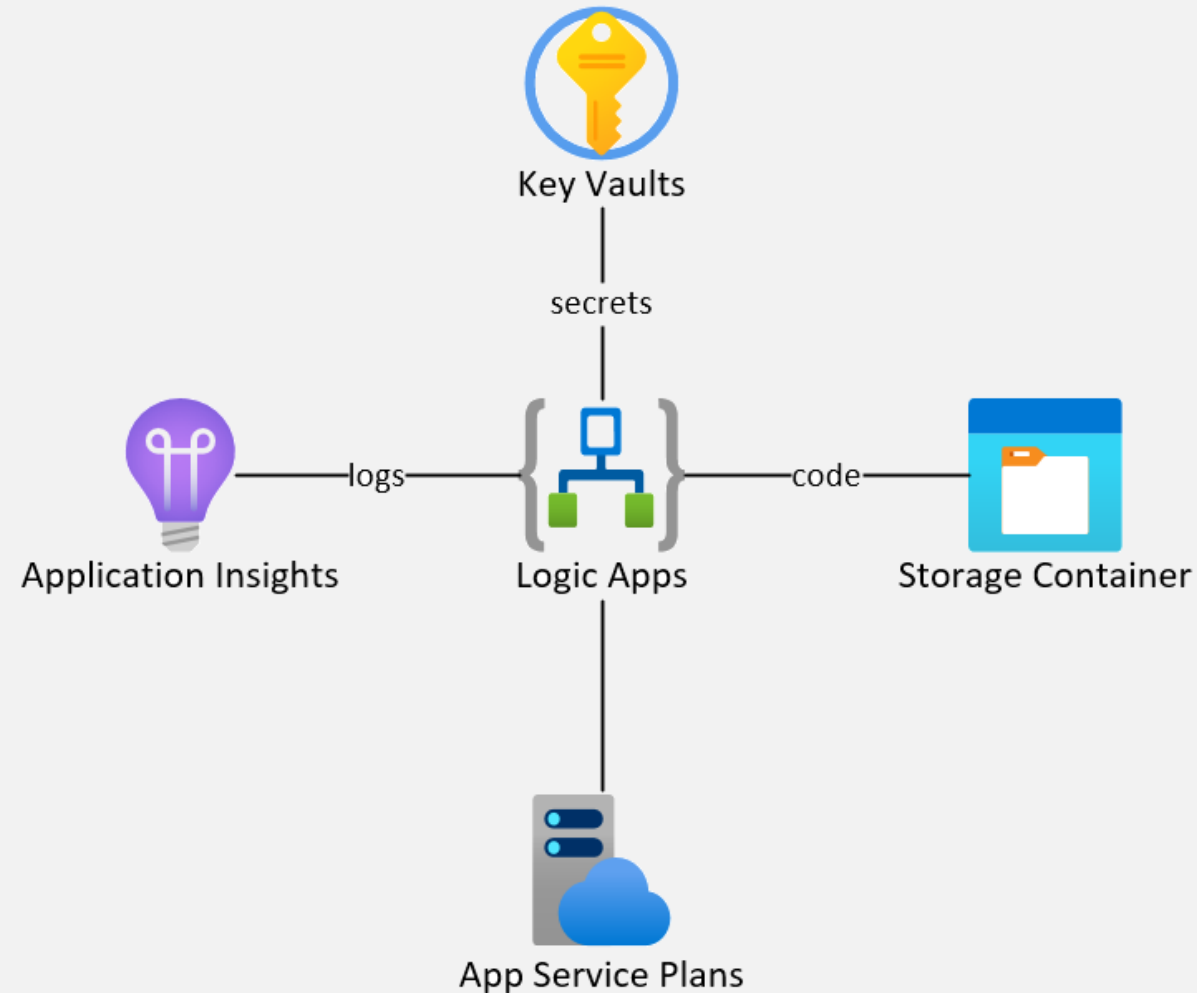


Hybrid pro and low code

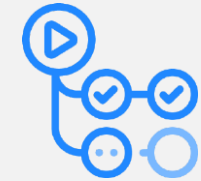


Agentic Workflows

Azure Logic Apps – Infrastructure



Azure Logic Apps – Development Stack



+



+



Visual Studio Code



Let's integrate with AI!

Using Azure Logic Apps to integrate with AI

Autonomous Agents

Wherever business takes you

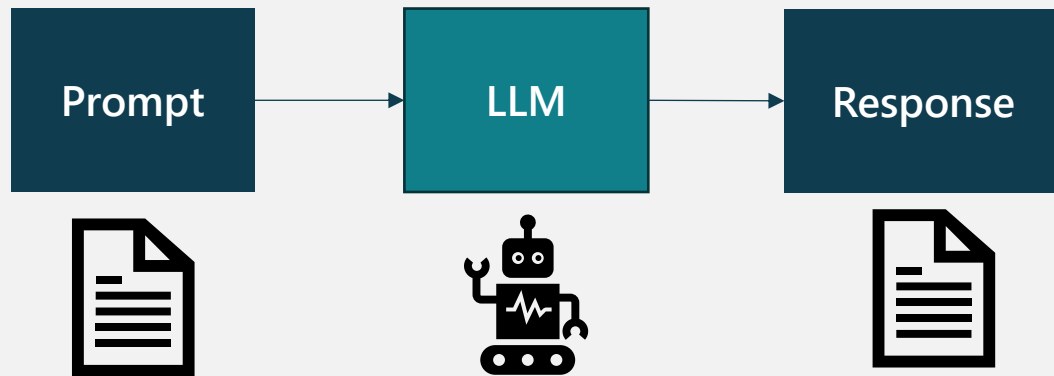
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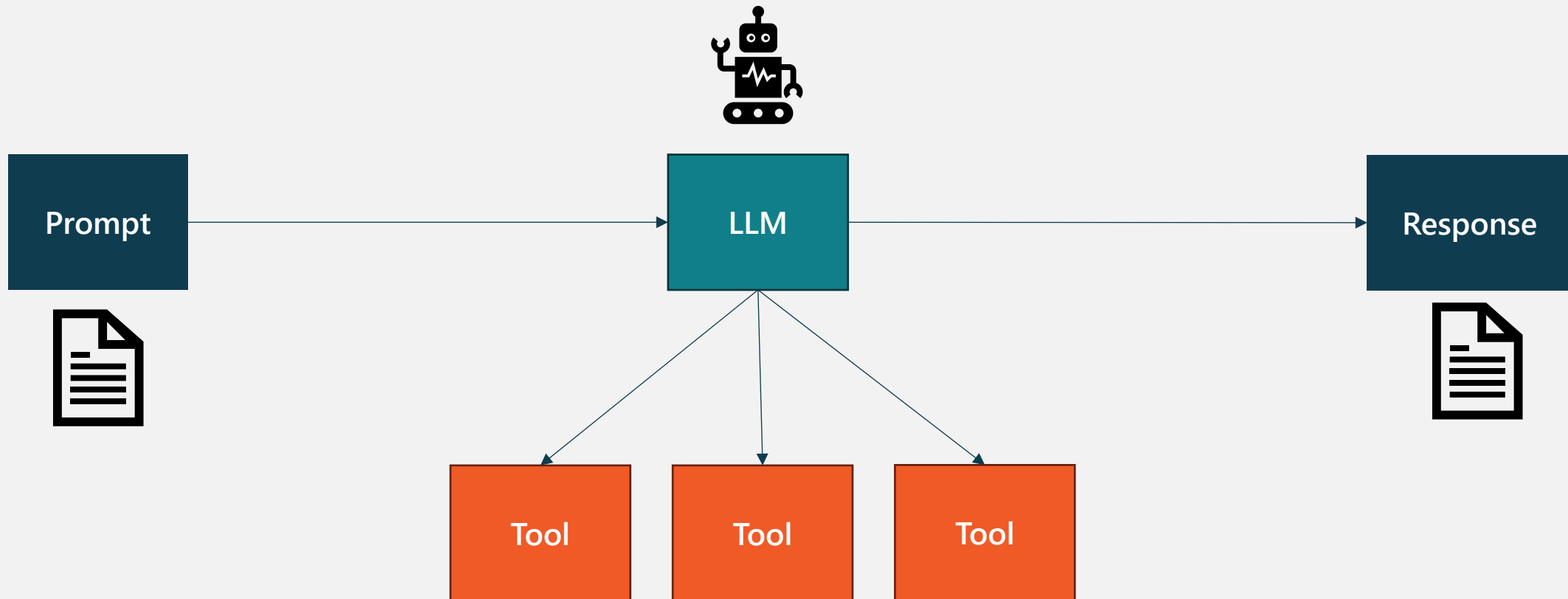


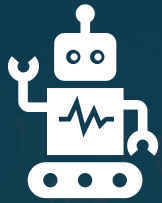
Agentic Workflow



- *Reason* – Analyze the input
- *Act* – Execute actions
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Agentic Workflow





Demo – Autonomous Agents



Translation Agent



Weather Agent

Retrieval Augmented Generation

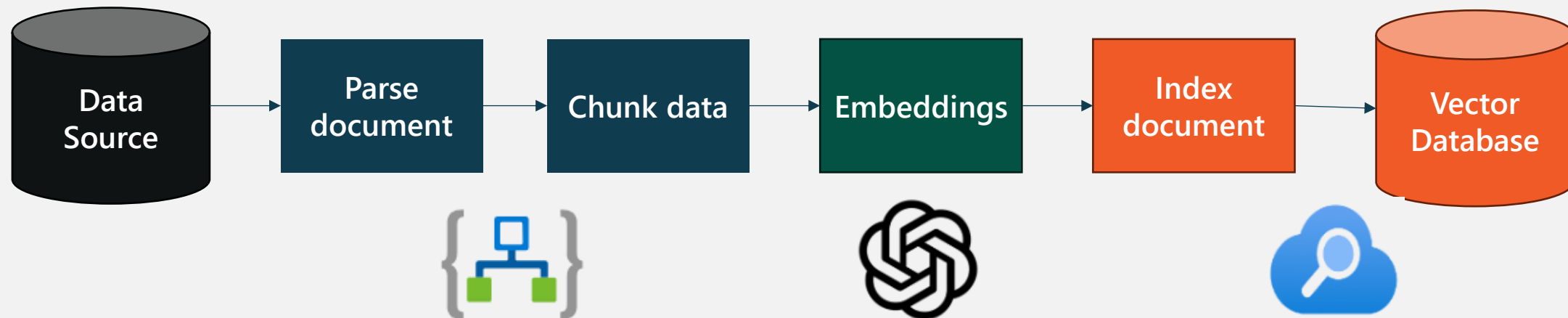
Wherever business takes you

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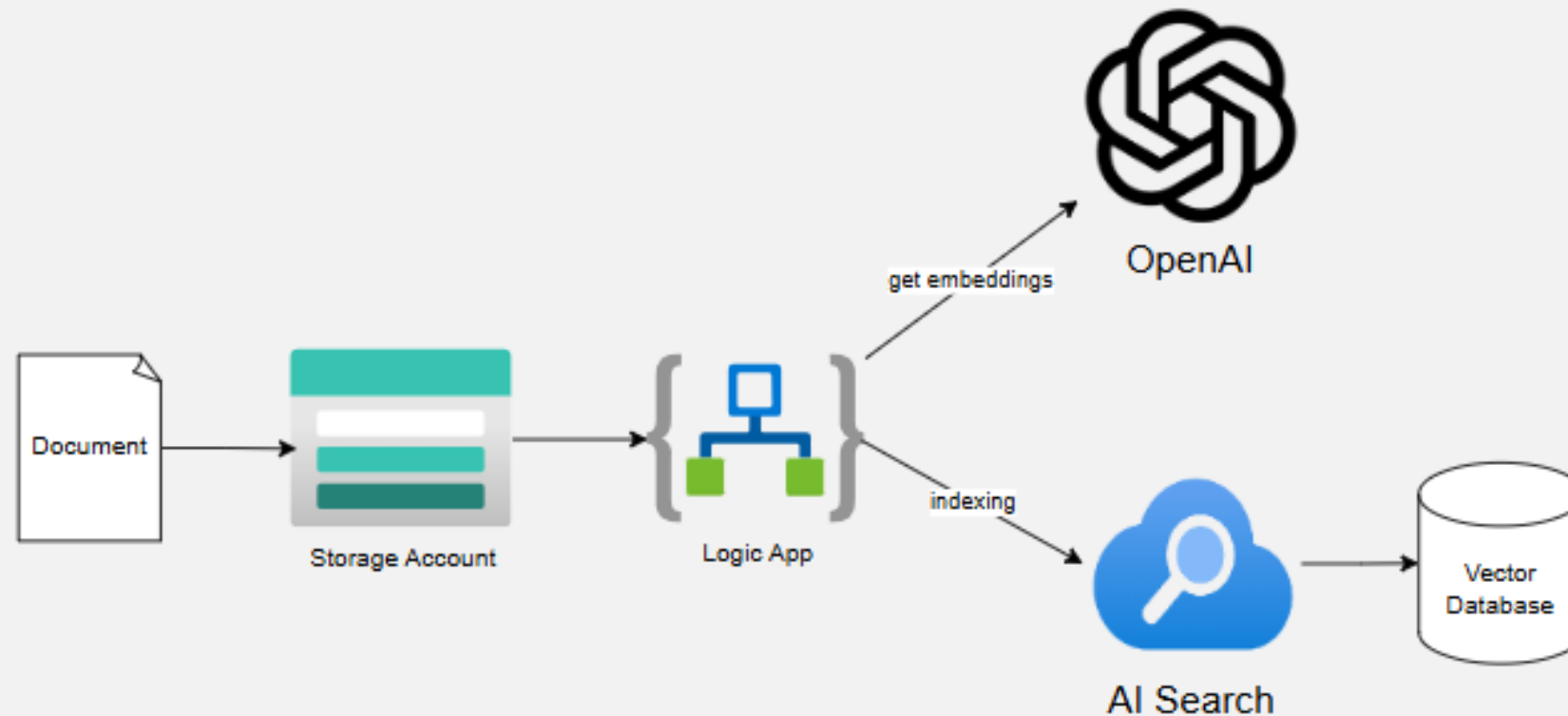


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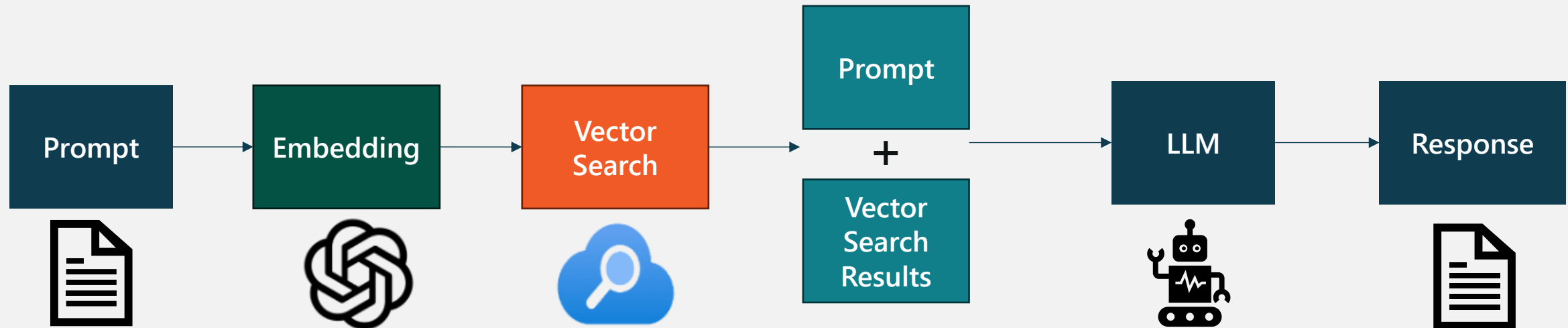
RAG Ingestion Pattern



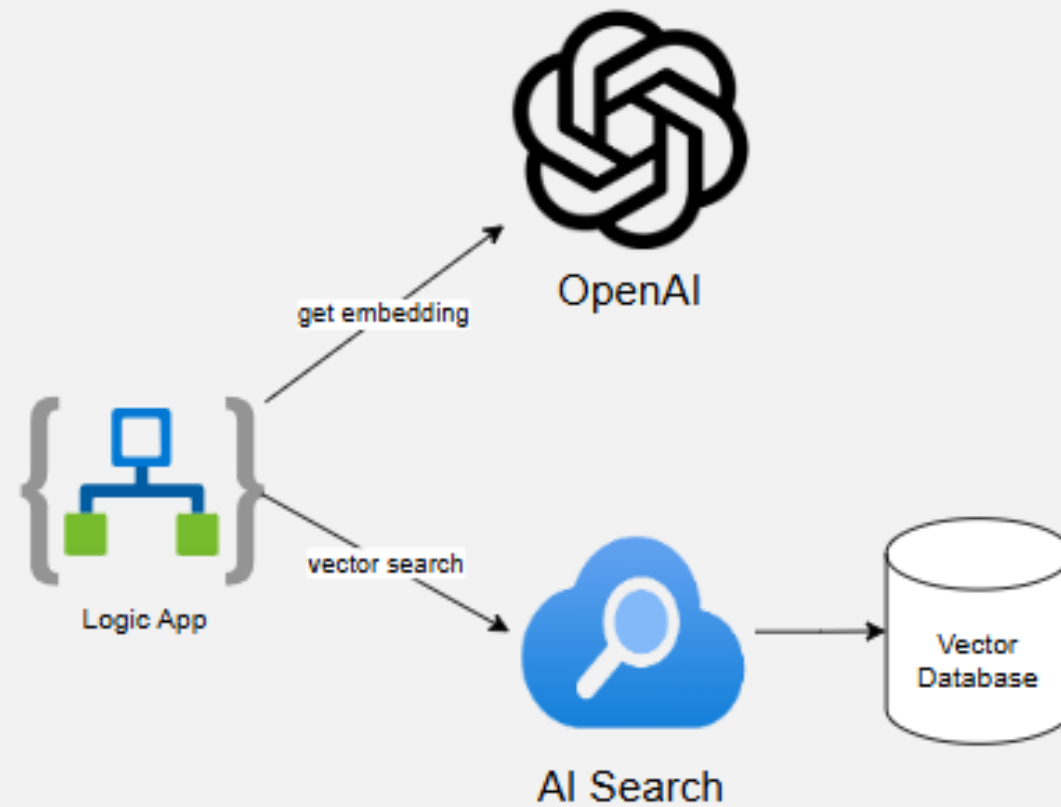
RAG Ingestion Infrastructure



RAG Query Pattern



RAG Query Infrastructure





Demo – RAG



DND Character Agent

Human In the Loop

Wherever business takes you

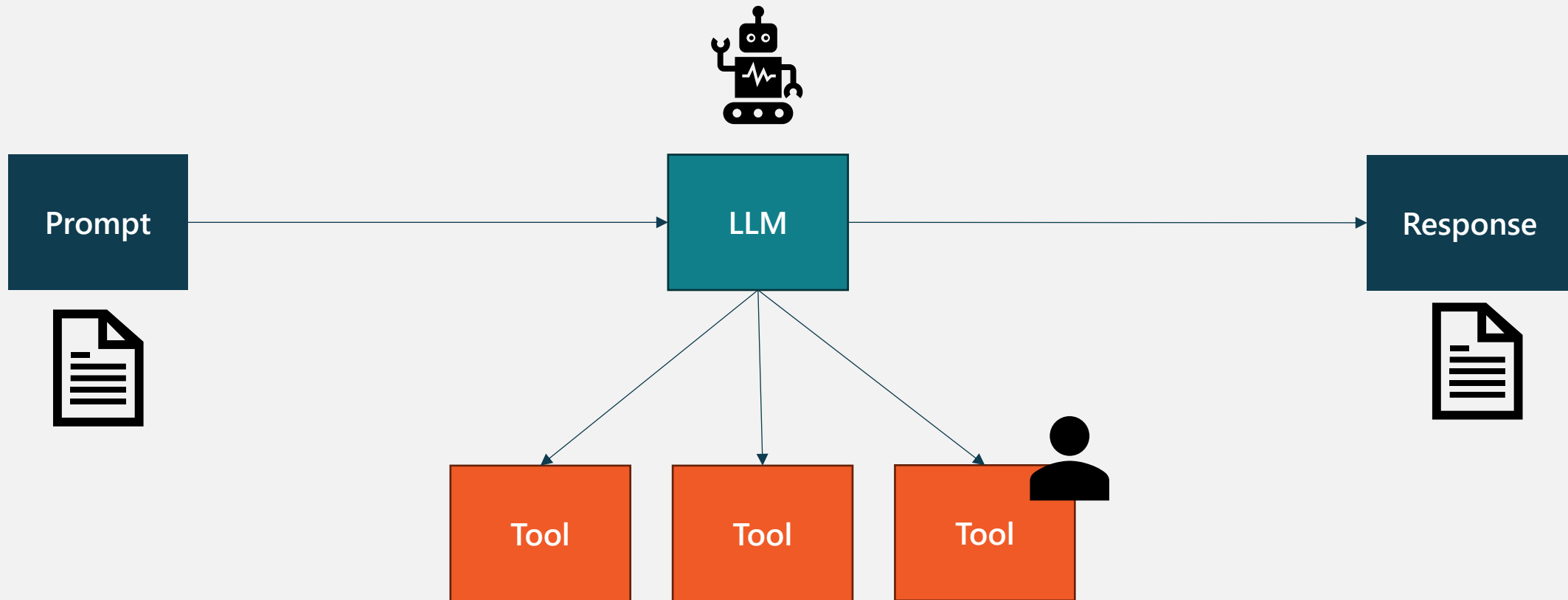
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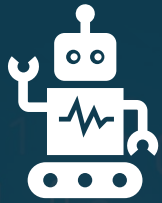


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Agentic Workflow

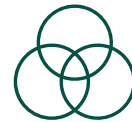




Demo – Human in the loop



Rock Paper Scissors Agent



Data Mapping Agent

Model Context Protocol

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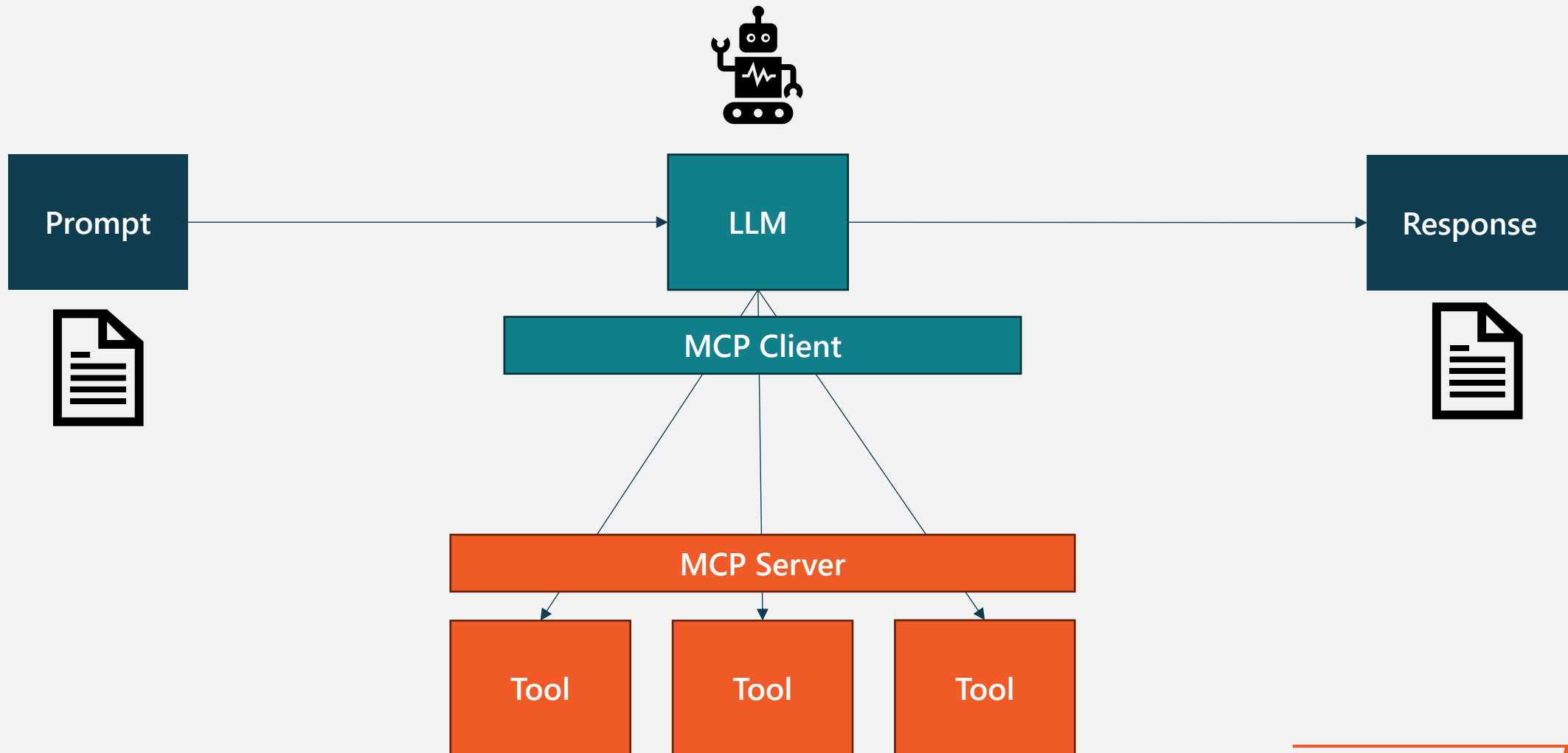




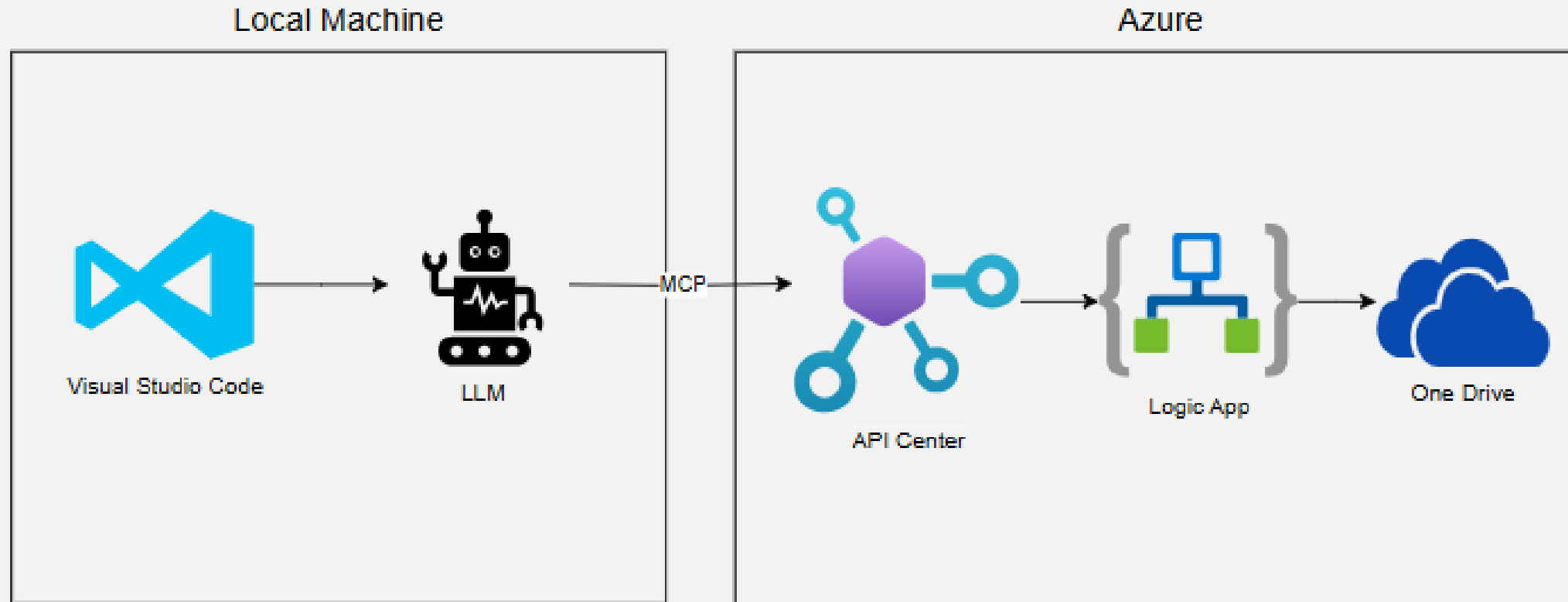
Model Context Protocol

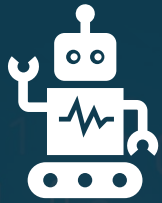
- Standard developed by Anthropic to solve the problem of agents needing access to tools
- Similar concept to Web APIs

Agentic Workflow with MCP



Agentic Workflow with MCP - Infrastructure





Demo – Model Context Protocol



Logic Apps as an MCP Server

Multi-Agent Patterns

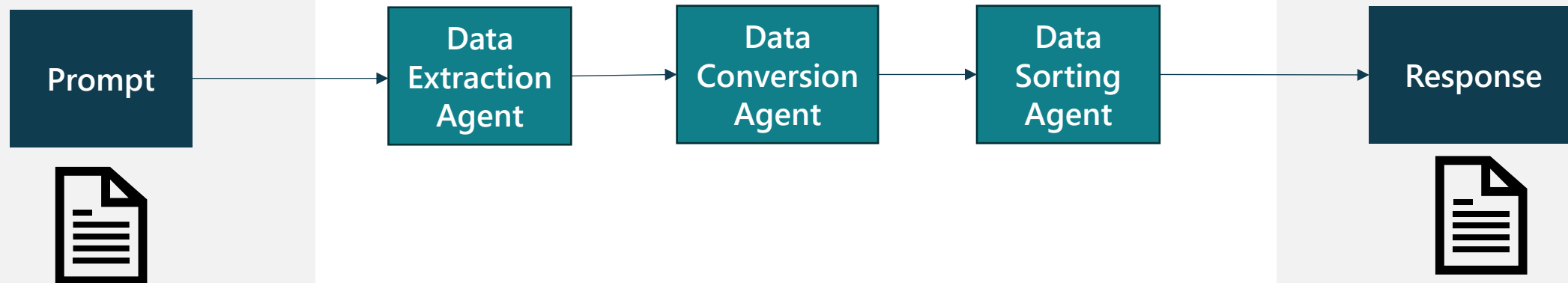
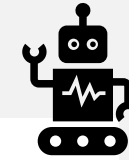
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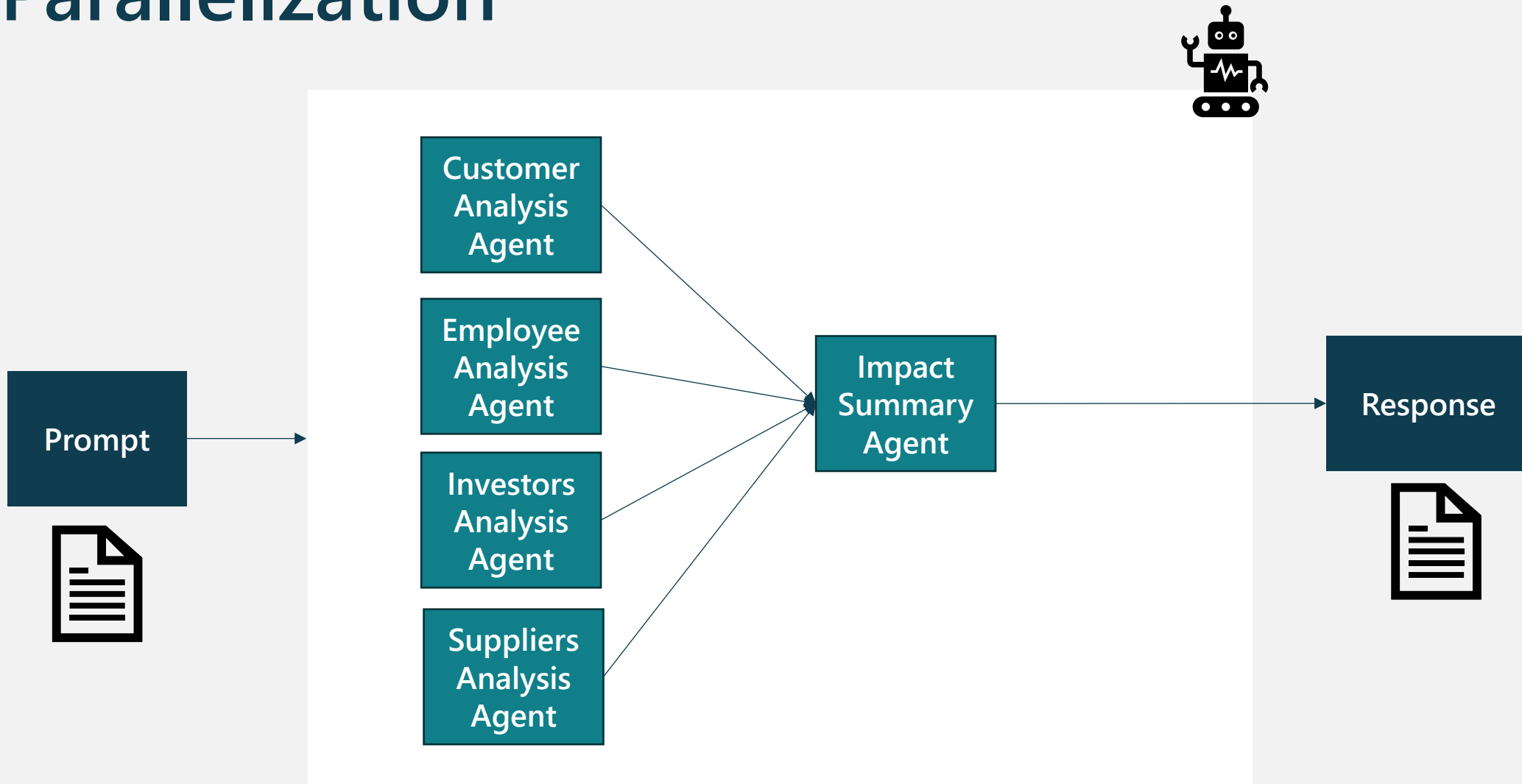


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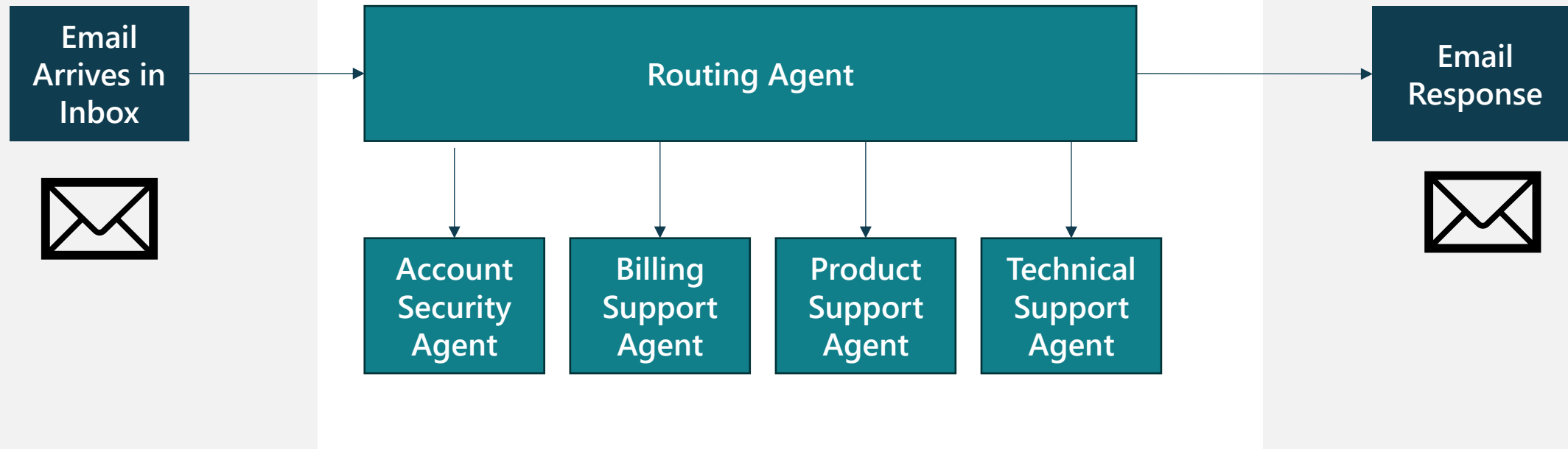
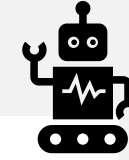
Prompt Chaining



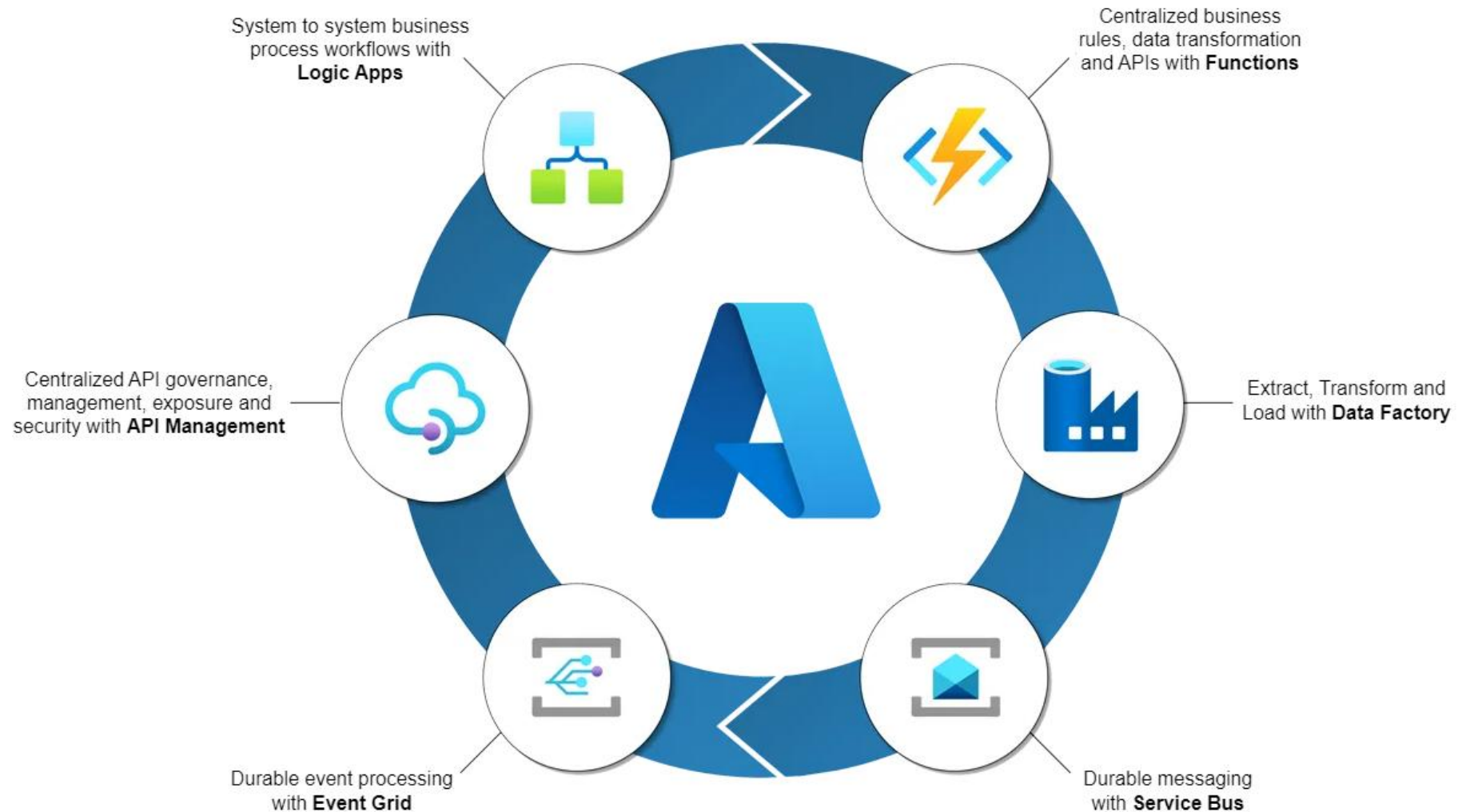
Parallelization



Routing Agent



Azure Integration Services



Questions

Logic Apps, Aviators Community



[Newsletter - Azure Integration Services Blog](#)

Aviators Community



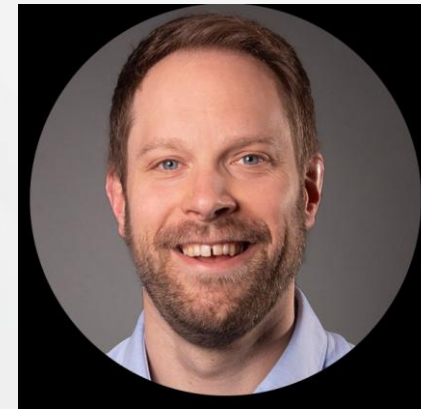
Michael Stephenson



Stephen W Thomas



Sandro Perreira



Sebastian Meyer



Mattias Lögberg



Microsoft Logic Apps Product Team



Harold Campos



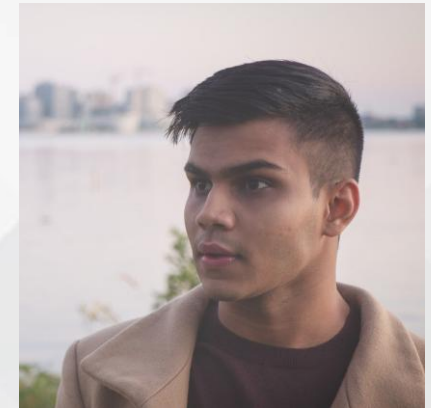
Kent Weare



Wagner Silvera

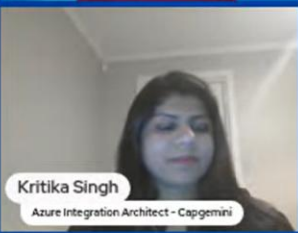


Divya Swarnkar



Parth Shah





Logic Apps Live

August 2025

Hosted by:
Kent Weare
Parth Shah
Wagner Silveira



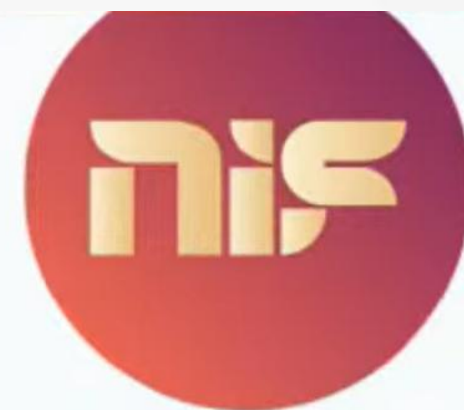
Logic Apps Community Day 2025

LOGIC APPS COMMUNITY DAY 2025

October 30, 2025 @ YouTube Microsoft Developers Channel



Ready for another year!?



We sure are!

The team behind the Nordic Integration Summit is once again working hard to provide you with two days filled with the latest news from the Nordic integration community.

When?

20-21 Oct 2025

Where?

Central Stockholm Stockholm, Sweden

<https://nordicintegrationsummit.com/>



Resources & Learning

Logic Apps, Agentic AI Labs - <https://wsilveiranz.github.io/logicapps-labs/docs/intro>

IBM Technology YouTube Channel - <https://www.youtube.com/playlist?list=PLOspHqNVtKADfxkuDuHduUkDExBpEt3DF>

Kent Weare, MCP Server with Logic Apps - <https://www.youtube.com/watch?v=CE5VisHBtxc>

Stephen W Thomas, YouTube Channel - <https://www.youtube.com/@StephenWThomas>

57% of organizations estimate their data is not AI-ready – Gartner 2025

49% of leaders cite that demonstrating business value is the biggest barrier for AI adoption – Gartner 2025

40% of highly regulated enterprises will combine data and AI governance – Forrester 2025

Final Thoughts

Leave you with two ideas and impressions...

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The SaaS platforms that exist in your organizations IT landscape can be leveraged in AI with Azure Logic Apps

02

Implement

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