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Connect Anything with AI- Native Integration



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AI Lead Integration BU

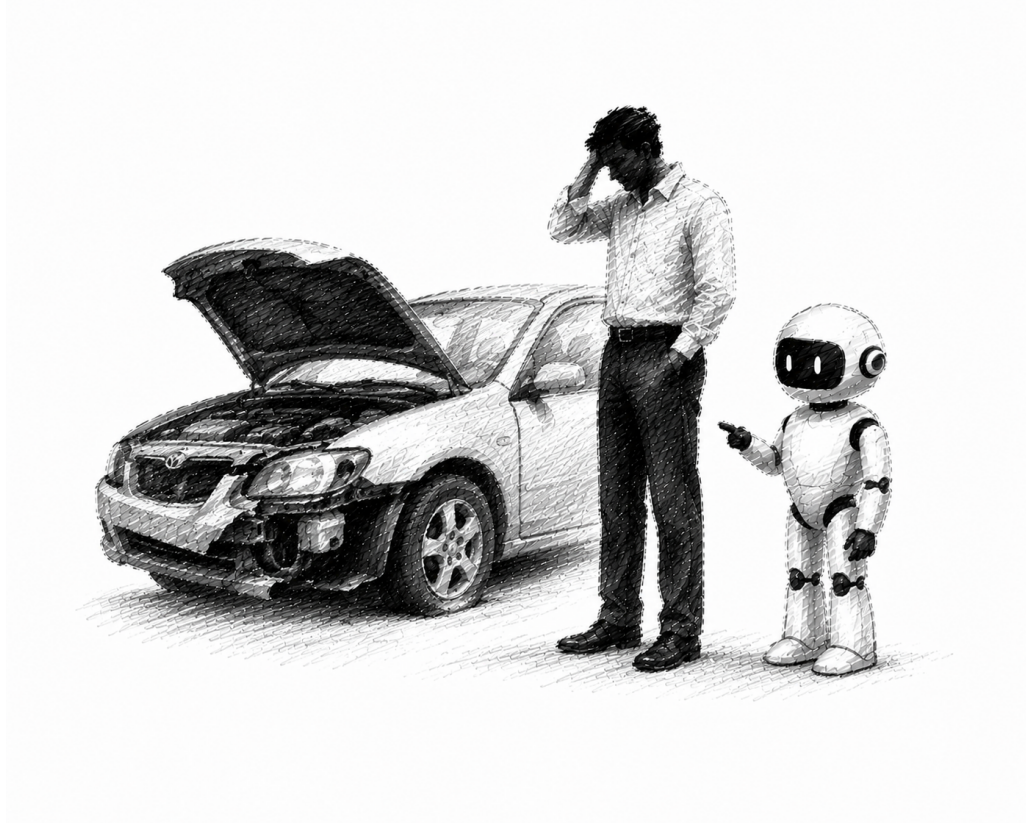




80/100

AI Projects Are Failing Because AI Is Disconnected

ERS Dispatch Agent



ERS Dispatch Agent



Big Prompt | Lots of Integration

Today, we'll look at how **AI-native integration** can set your AI projects up for success.

I help integration developers build integrations by building well designed, simple and easy to use tools.

Enterprise -> **Agentic Enterprise**



**Agents are becoming first-class actors
in enterprise architecture.**

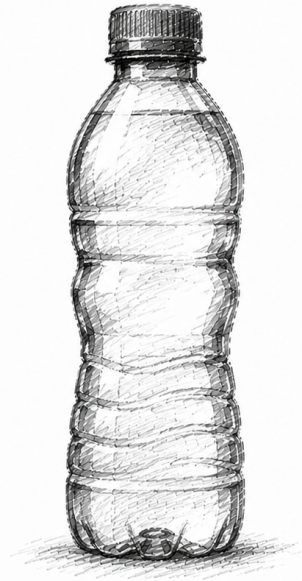
Why Traditional Integration Breaks

Traditional vs Agentic

Traditional	Agentic
Static workflows	Dynamic execution
Rules	Reasoning
APIs as endpoints	APIs as tools
Human driven	Autonomous
Deterministic	Probabilistic



Traditional vs Agentic

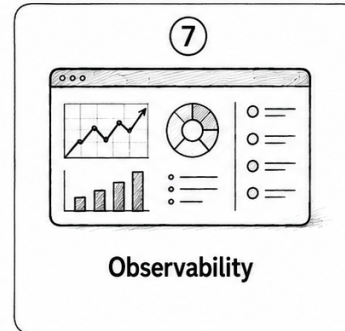
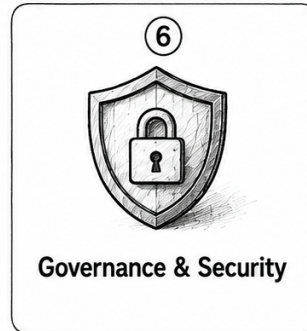
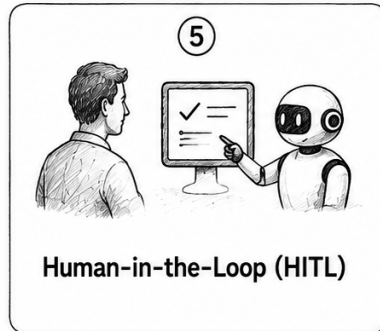
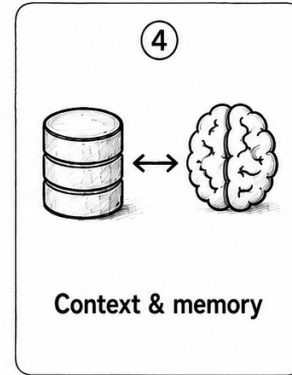
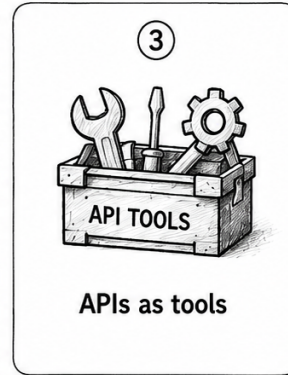
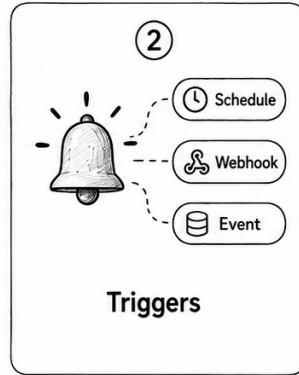
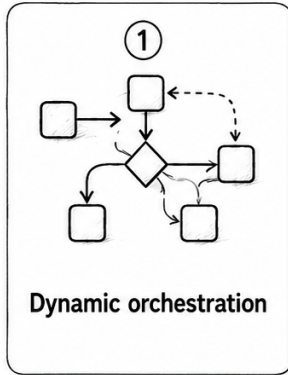


**We designed APIs for developers.
Now we must design systems for
agents.**

What is AI-Native Integration?

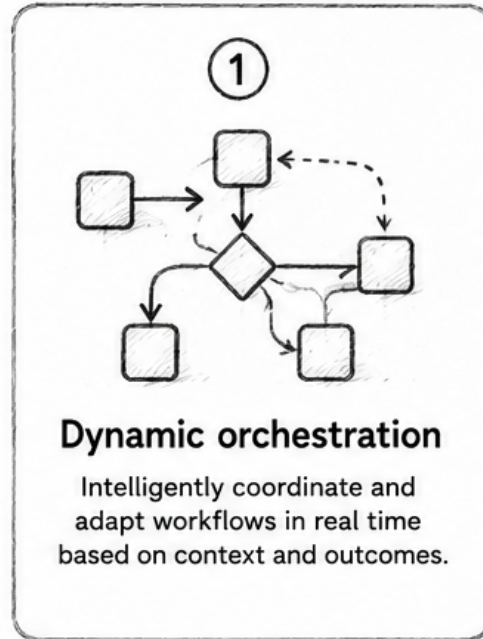
**AI-native integration embeds
intelligence into the integration layer
itself.**

Seven Blocks of AI-Native Integration



Building Blocks of AI-Native Integration

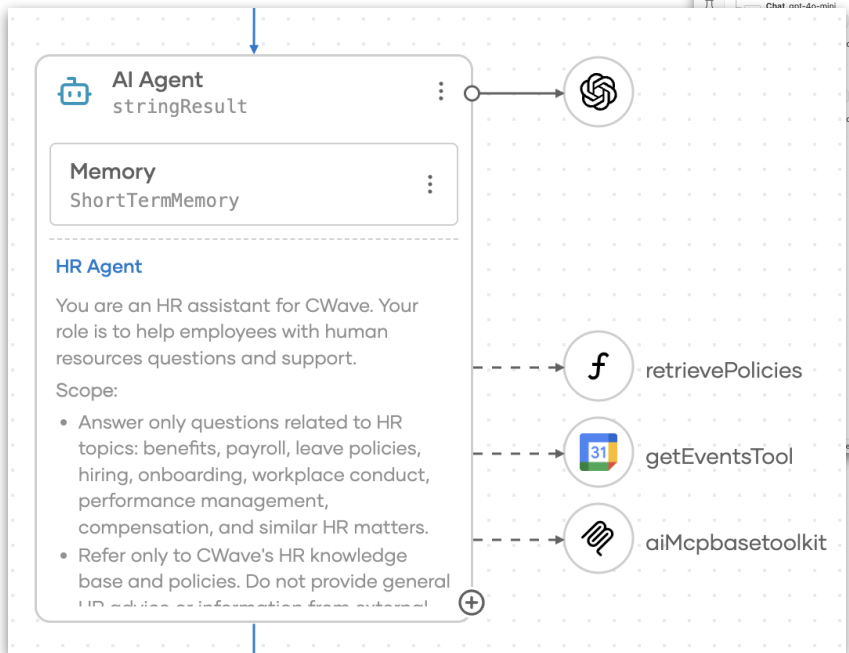
1. Build Dynamic Workflows



1. Build Dynamic Workflows



1. Build Dynamic Workflows



WSO2 Integrator | Trace Logs

Trace | Timeline

Filter spans...

Invoke Agent - Math Tutor
3.82s | 1,237 tokens

math_tutor

Session Traces / Trace: 9ae83959003b36a7a61728e3ace7c261

Invoke Agent - Math Tutor

Search all sections...

Latency: 3.82s | Total Input Tokens: 1105 | Total Output Tokens: 132 | Provider: Ballerina

Start Time: 05/06/2026, 10:20:33.789 PM | End Time: 05/06/2026, 10:20:37.611 PM

Input

SYSTEM INSTRUCTIONS

Role
Math Tutor

Instructions
You are a math tutor assistant.

RULES (MUST FOLLOW):

- You MUST use the provided mathematical tools (add, subtract, multiply, divide) for ALL calculations, even simple ones.
- You are NOT allowed to compute results mentally or inline.
- If a calculation is required and a tool is available, you MUST call the tool.
- If you do not call a tool when a calculation is required, the response is invalid.

Provide clear, step-by-step explanations. Include the final answer at the end.

USER

How much is 3+2-8?

Output

Agent Chat

Session Traces | Clear Chat

Hi

Execution Steps (1) >

Hello! How can I assist you with your math questions today?

View Trace

How much is 3+2-8?

Execution Steps (5) >

Let's calculate 3 + 2 - 8 step by step.

- First, we add 3 and 2:
 $3 + 2 = 5$
- Next, we subtract 8 from the result:
 $5 - 8 = -3$

So, the final answer is -3.

View Trace

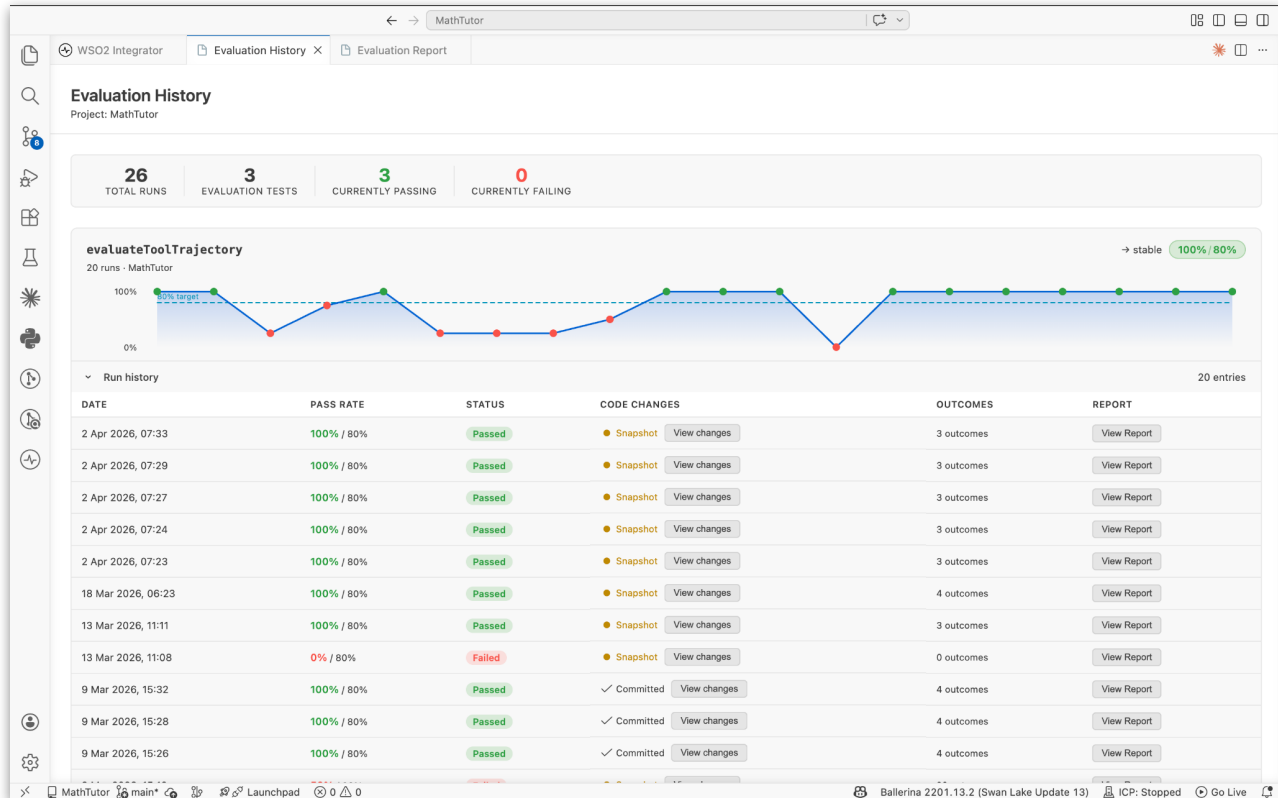
4-9+8/5?

Execution Steps (9) >

Let's calculate 4 - 9 + 8 x 5 ÷ 3 step by step.

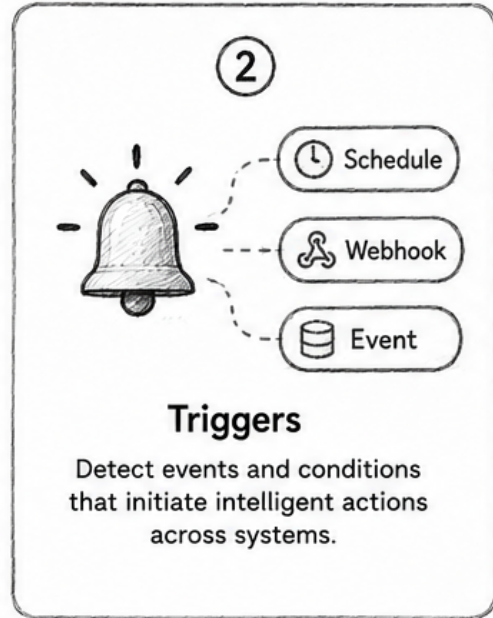
- First, we subtract 9 from 4:

1. Build Dynamic Workflows

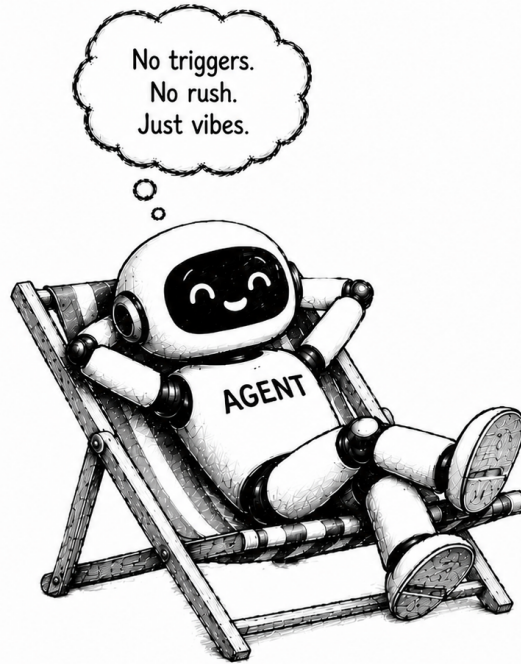


Integration is moving from predefined flows to runtime decision-making.

2. Triggers













2. Triggers



2. Triggers

Event Integration
Create an integration that can be triggered by an event.

 Kafka	 RabbitMQ
 MQTT	 Azure Service Bus
 Salesforce	 Twilio
 GitHub Beta	 Solace
 CDC for Microsoft SQL Server	 CDC for PostgreSQL



3. Triggers

The screenshot displays the WSO2 Integration Platform interface for managing a Voice Agent. The left sidebar contains navigation options: Overview, Develop, Build, Deploy, Test, Insights, Observability, Voice AI, and Admin. The main content area is titled "Voice Agent" and includes a "Back to Voice AI Agents" link. At the top right, there are "Restart", "Stop", and "Start" buttons. Below this, there are tabs for "Overview", "Configure", and "Settings".

The "Overview" tab is active and shows the following information:

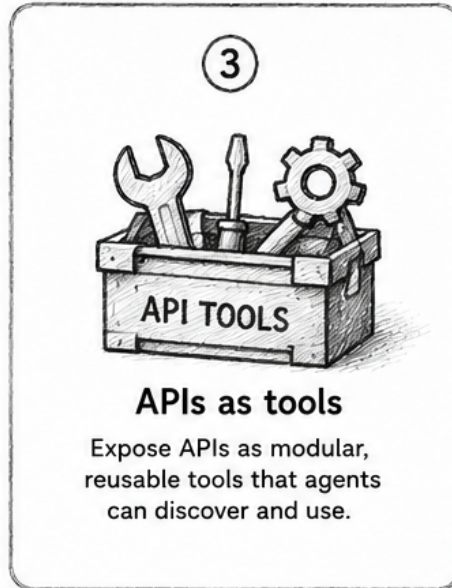
- Service Status:** Running (indicated by a green dot). The Endpoint Host is `https://devant.wso2.com/voice-agent/agent-x98f`.
- DEPLOYMENT INFO:** A table showing deployment details.

REGION	CREATED	SOURCE PROJECT
Digital Ocean - US East	Just now	sample-agent
- Provider Configuration:** Two configuration boxes are shown:
 - SPEECH TO TEXT PROVIDER:** DEEPGRAM (Model: Nova-2)
 - TEXT TO SPEECH PROVIDER:** CARTESIA (Voice: Default Voice)
- Active Capabilities:** A list of capabilities including Barge-In, Turn Detection, VAD, and Multilingual.

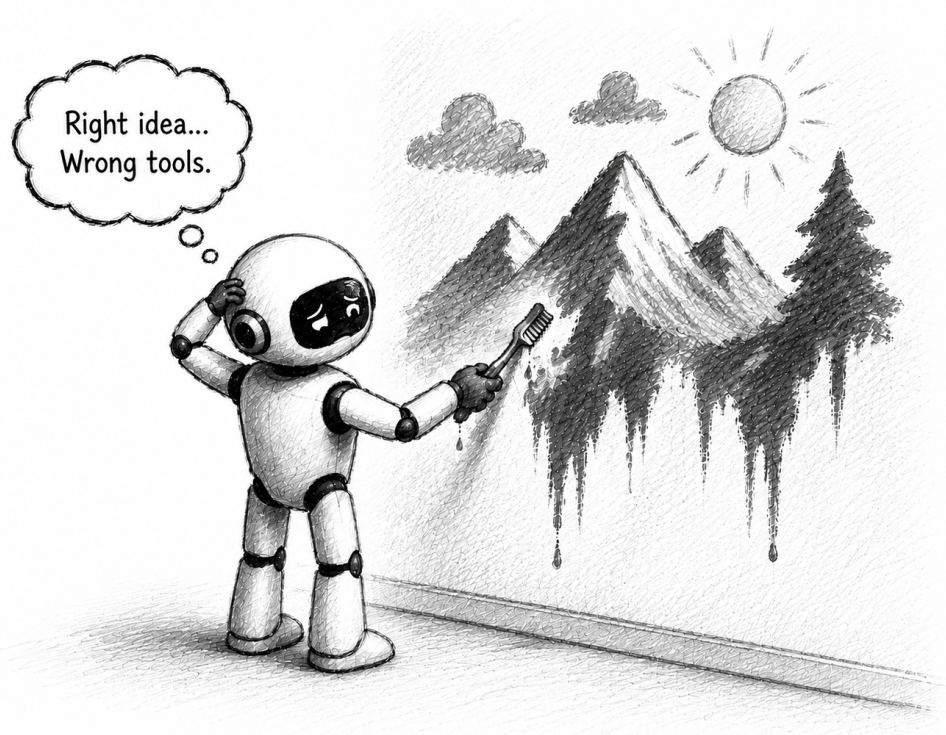
On the right side, there is a "Voice Agent" card with a microphone icon, the name "Voice Agent", and the subtitle "WSO2 Voice Assistant". It shows a "LIVE" status and a "Say hello" button. Below the button, it says "Press Start Session to interact with your WSO2 voice agent." and a "Stop Session" button.

**Traditional systems connected
endpoints.
Agentic systems connect intent.**

3. Connect APIs as Capabilities



3. Connect APIs as Capabilities



Connect APIs as Capabilities

Add Tool

Create and add tools to extend your agent's capabilities. Choose the method you'd like to use:

- Use Connection**

Turn an existing connection (HTTP client, database, message broker) into an agent tool. Your agent will be able to make requests and interact with these services.
- Use Function**

Create a tool from an existing function in your integration or from a library function. This gives your agent the ability to execute specific business logic.
- Use MCP Server**

Connect to a Model Context Protocol (MCP) server to access pre-built tools and resources. MCP servers provide standardized access to external systems and data sources.
- Create Custom Tool**

Build a new tool from scratch using the visual flow editor. Define the tool's logic, inputs, and outputs to give your agent customized capabilities tailored to your exact needs.

Edit MCP Server

Server Uri*

Text Expression

http://localhost:8080/mcp

Requires Authentication

Enable if the server requires authentication

Tools to Include

Selected

Available Tools Deselect All

5 of 5 selected

- getLeaveBalance**
Get the leave balance for an employee. Returns annual, sick, and casual leave...
- applyLeave**
Apply for leave on behalf of an employee. leaveType must be 'annual', 'sick', or 'casual'...
- updateLeaveStatus**
Approve or reject a pending leave request for an employee. action must be 'approve' ...

MCP Service

Implement and configure your service

Listener: mcplistener

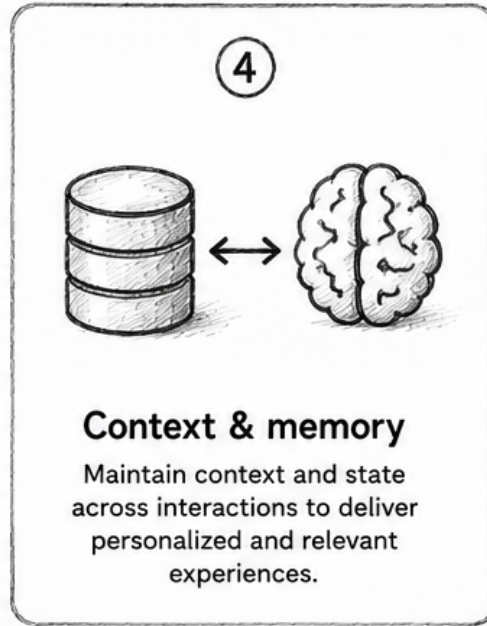
Tools
Define how the mcp service responds to tool calls

- TOOL** applyLeave
- TOOL** listEmployees
- TOOL** getLeaveBalance
- TOOL** getLeaveHistory
- TOOL** updateLeaveStatus

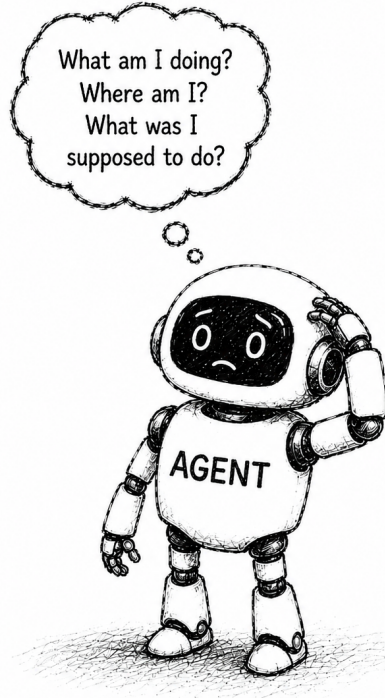


**Every enterprise capability must
become AI-consumable.**


4. Connect Data with Context



4. Connect Data with Context



Connect Data with Context



Organization: shafreenanfar

- Overview
- Develop
- Build
- Deploy
- Test
- Insights
- Observability
- RAG
 - Scheduled Ingestion
 - Service
 - Retrieval
- Admin

1 STEP 1
Initialize Vector Store

2 STEP 2
Configure Embedding Model


3 STEP 3
Configure Chunking


4 STEP 4
Create Automation


5 STEP 5
Configure Datasource


Setup RAG Ingestion


Initialize Vector Store

 Pinecone

 Chroma

 Weaviate

 PostgreSQL

 WSO2 Integration Platform Managed

Back




Next

Connect Data with Context

← Select Memory Store ×

🔍 Search

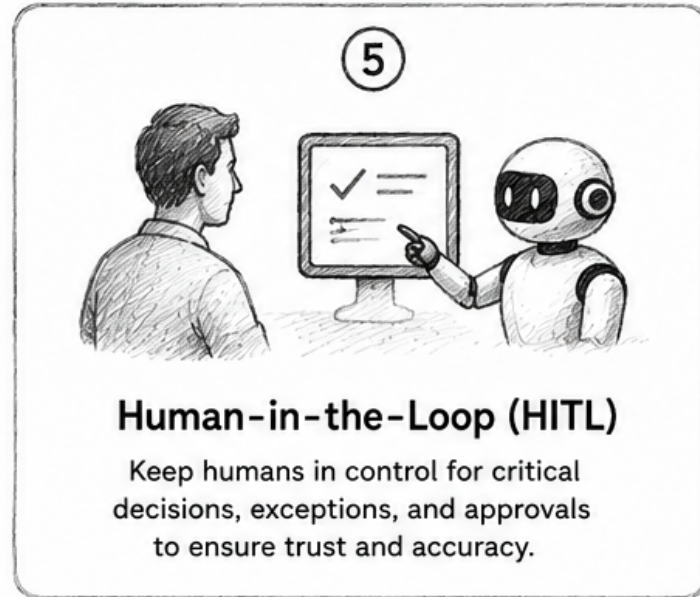
Memory Stores

-  **In Memory Short Term Memory Store**
Provides an in-memory chat message store.
-  **MSSQL Short Term Memory Store**
Represents an MS SQL-backed short-term memory store for messages.
-  **Redis Short Term Memory Store**
Represents a Redis-backed short-term memory store for messages.

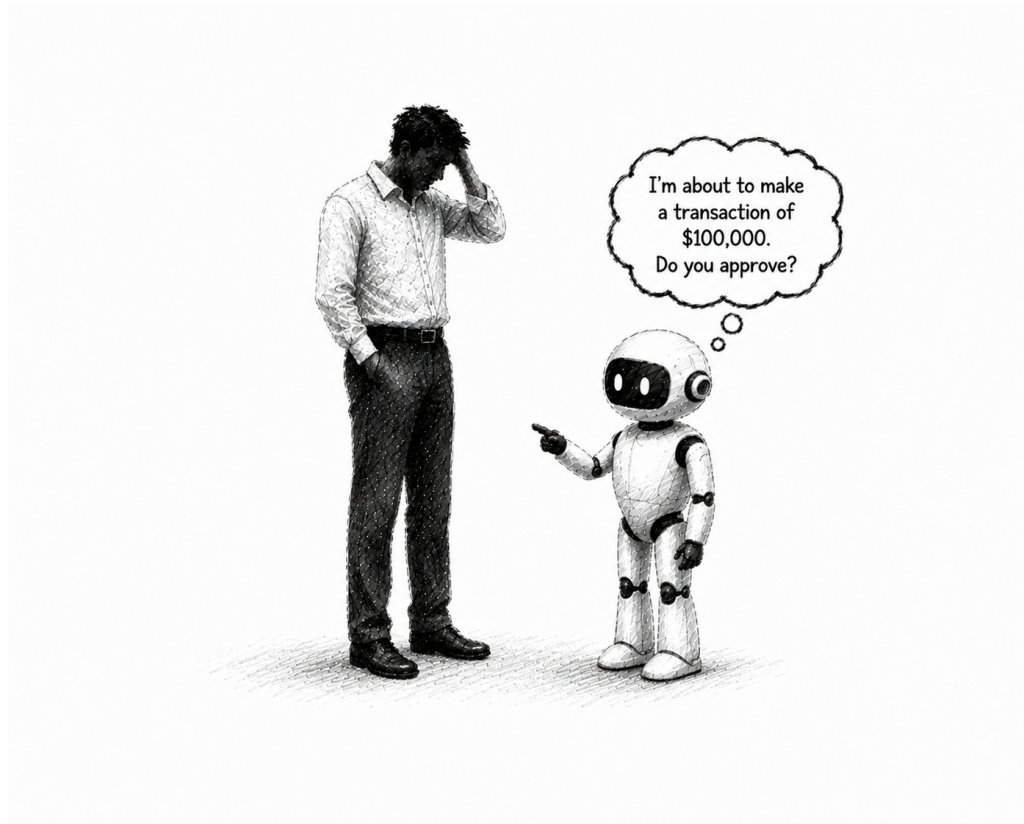


**Connections without context create
brittle intelligence.**

5. Connect Humans and Agents

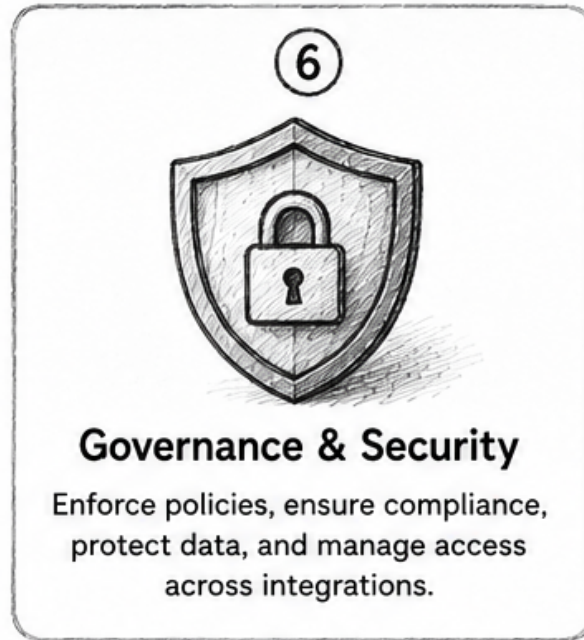


5. Connect Humans and Agents



**The future enterprise is hybrid: humans
and agents operating together.**

6. Connect with Governance & Security



6. Connect with Governance & Security



6. Connect with Governance & Security

AI Agent ✕

verbose (Default: false)
Specifies whether verbose logging is enabled. Boolean Expression

No Selection

Tool Loading Strategy (Default: NO_FILTER)
Defines the strategies for loading tool schemas into an Agent. By default, all tools are loaded without any filtering. Select Expression

No Selection

Agent Credential (Default: {id: "", secret: ""})
Optional authentication details of the agent. Record Expression

```
{
  id: {x} agentId ,
  secret: {x} agentSecret
}
```

Session ID (Default: sessionId)
The ID associated with the agent memory. Text Expression

```
{x} request.sessionId
```

Context (Default: new)
The additional context that can be used during agent tool execution.

```
new ()
```

Type Descriptor (Default: ai:Trace|string)
Type descriptor specifying the expected return type format.

string

Result*
Name of the result variable

stringResult

Save

Tools to Include

Selected

Available Tools 🔄 🗑️ Deselect All

2 of 2 selected

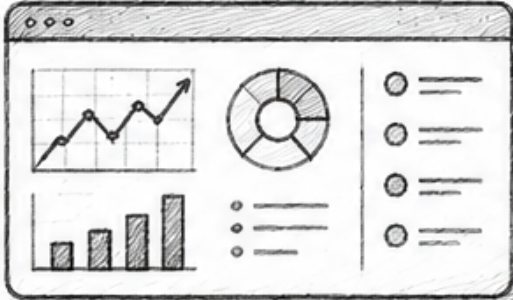
- getCurrentWeather**
getCurrentWeather 🛡️
- getWeatherForecast**
Get weather forecast for upcoming days. 🛡️



AI-Native integration built with trust.

7. Connect to Observability Frameworks

7



Observability

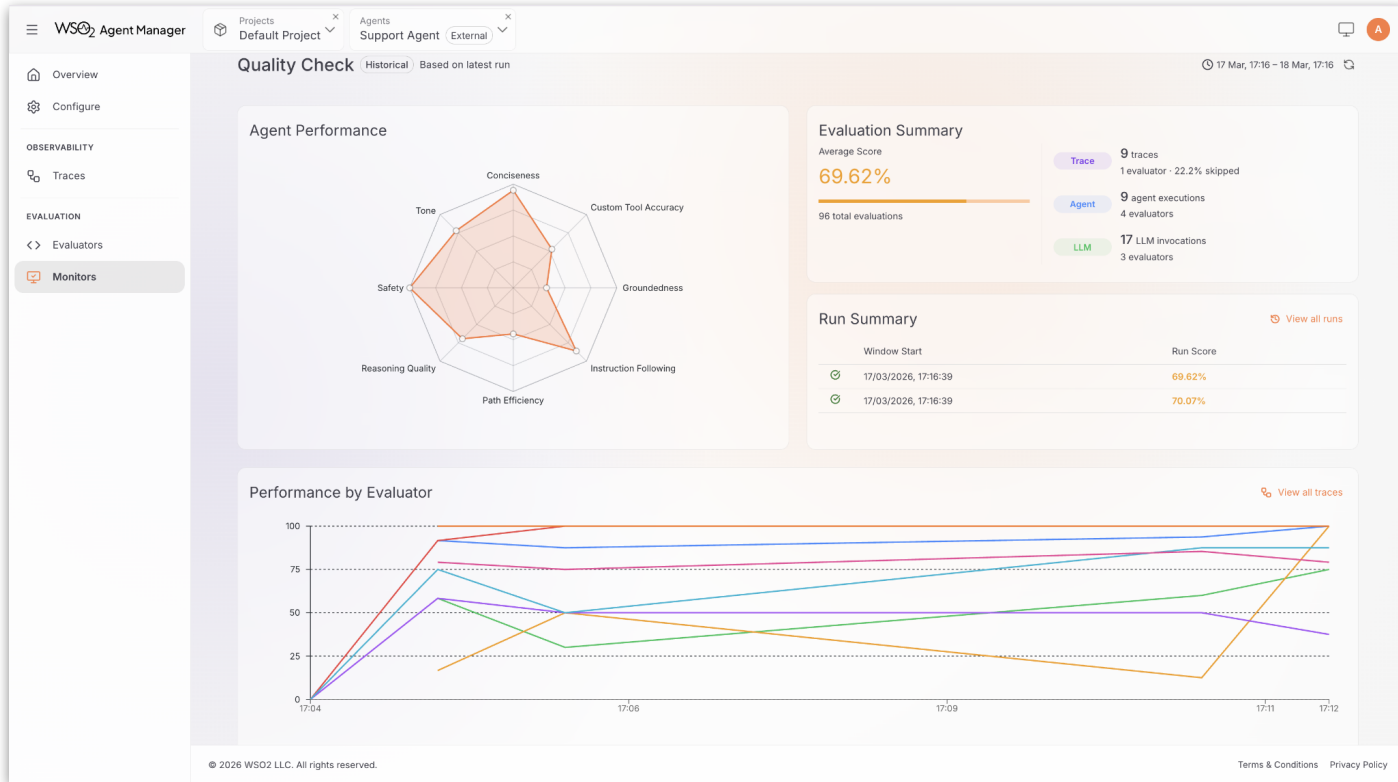
Monitor, trace, and analyze performance and behavior to ensure reliability and continuous improvement.



7. Connect to Observability Frameworks



7. Connect to Observability Frameworks



**The challenge is not just enabling
agents to connect to everything.
It is enabling them to do so
responsibly.**

Employee Leave Agent



1. Understands request

Understands the employee's leave request in natural language.



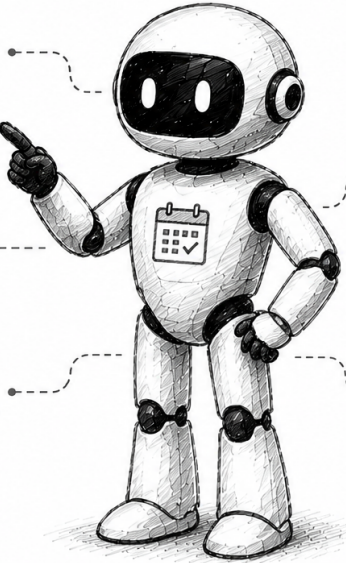
2. Checks policies

Validates eligibility, leave balance, blackout dates, and company policies.



3. Calls APIs

Calls HRMS, Payroll, Calendar, and other systems to fetch or update information.



4. Gets approvals

Routes the request to the right approvers and handles approvals or rejections.



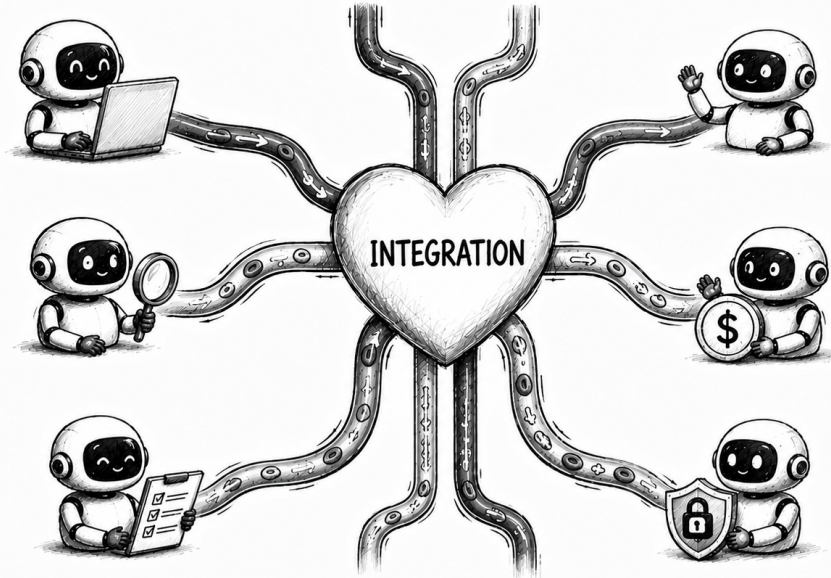
5. Updates systems

Updates all relevant systems, notifies the employee, and closes the loop.



Be on the 20

INTEGRATION IS THE
CIRCULATORY SYSTEM OF AGENTS!



Understand the shift. Rise to the challenge!





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Thank You!



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