

# Getting Started with the Knowledge Driven Agentic AI Framework Playground

The following steps will help you understand the framework, set up the sample MCP server, and execute Knowledge Base Articles (KBAs) through the playground.

## I. Setting Up the Sample MCP Server

Before using the playground, it is recommended to understand the sample MCP server and the KBA structure used by the framework.

### Step 1: Download the Sample MCP Server

Download the sample MCP server from the provided repository/link.

Link: [https://automationbox.in/kba\\_agent/kba\\_mcp.tar](https://automationbox.in/kba_agent/kba_mcp.tar)

### Step 2: Understand the KBA Structure

The framework executes business procedures defined as Knowledge Base Articles (KBAs). Review the sample KBAs available in the data directory:

2.1 **data/descriptions.yaml** – Contains the registration details of all available KBAs.

2.2 **data/\*.txt** – Contains the actual Knowledge Base Articles, written as clear step-by-step business procedures that the agent can execute.

### Step 3: Configure OpenAI API Key

Update the .env file with your OpenAI API key: `OPENAI_API_KEY=<your_openai_api_key>`

### Step 4: install required packages.

- Extract the contents from kba\_mcp.tar
- Go to the directory: kba\_mcp
- Run command: `pip install -r requirements.txt`

### Step 5: Start the MCP Server

Start the MCP server: `python mcp_server.py`

**Note:** This MCP Server expose the endpoint as “`http://<public-ip-address>:8000/api/sse`”

**Important:** Since the agent running in the playground must access your MCP server, the MCP server should be hosted on a machine with a public IP address or a publicly accessible endpoint.

## II. Using the Playground

### Step 5: Open the Playground

Access the playground using the following URL: [https://www.automationbox.in/kba\\_agent/demo](https://www.automationbox.in/kba_agent/demo)

### Step 6: Configure the Session

Provide the following details:

- Your OpenAI API Key
- MCP Server URL

**Example:** `http://<public-ip-address>:8000/api/sse`

### Step 7: Execute a Business Task

Enter the task you want the agent to perform.

Example: Reset my password

You do not need to provide all required information in the initial request. If additional information is required, the agent will interact with you, collect the necessary details, and continue executing the workflow. This demonstrates the framework's Human-in-the-Loop capability.

## III. Adding New Knowledge Base Articles (KBAs)

### Step 1: Create a New KBA

Draft the KBA as clearly as possible using step-by-step instructions. Well-structured KBAs lead to more accurate and deterministic workflow execution.

### Step 2: Register the KBA

Add a new entry to: **data/descriptions.yaml**

This makes the KBA discoverable by the framework.

### Step 3: Restart the MCP Server

After adding or modifying KBAs, restart the MCP server to load the latest changes.

## Key Concept

Knowledge Base Article (KBA) → Knowledge Driven Agent → MCP Tools → Workflow Execution

The framework supports:

- ✓ Knowledge-Driven Execution
- ✓ Human-in-the-Loop Interactions
- ✓ Deterministic Agent Behavior
- ✓ MCP-Based Tool Integration
- ✓ Bring Your Own OpenAI API Key
- ✓ Bring Your Own MCP Server

This allows organizations to convert existing operational procedures into governed, executable AI workflows with minimal effort.