watsonx Orchestrate Lab 2:
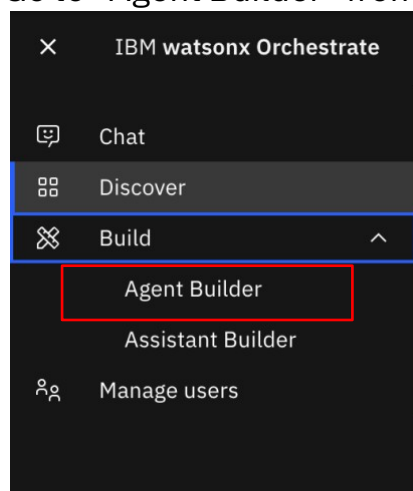
Connecting an AI Agent to watsonx
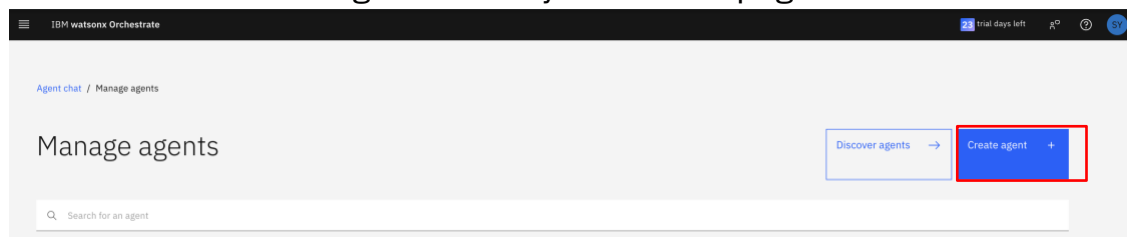
Orchestrate

Objective

Rule-based solutions and generative AI may not be sufficient to handle complex workflows and processes which have large problem space and multiple steps. However, we can harness the advanced reasoning capabilities and autonomous decision-making of agentic AI to tackle these challenges - watsonx Orchtestrate allows us to employ a network of AI agents, each designed for specific tasks, through agent orchestration to automate complex workflows and processes.

Importing External Agents

1. In Lab 1, we built a Research Agent in watsonx.ai. We were also able to test it. However, to deploy this agent for usage will still require more work.
2. Watsonx Orchestrate allows a low-code, straight forward way to import the agent we've built in watsonx.ai.
3. In IBM watsonx orchestrate Web UI,
   a. Go to "Agent Builder" from the top left hamburger menu

b. Click on "Create Agent" when you see this page.

c. You will be presented with a page like below.

d. Before we can import our agent, we need to explain what this agent is about.
   i. Name: [Your_Name] Supplier Research Agent
   ii. Description: This agent will help to perform supplier research on products, such as Xtralife

Create an agent

Create from scratch ◉	Create from template ○
Build your custom agent step by step to create a custom solution.	Browse the catalog and use the attributes of another agent as a template to create your agent.

Name*

SY_Research Supplier Agent

Description*

This agent will help to perform supplier research on products, such as Xtralife

Describe your agent's purpose.

e. Click "Create" at the bottom right after you have included the above information

f. Scroll all the way down until you see "Agent". Click on "Add Agent".

Tools

Give your agent access to your organization's tool to help it accomplish tasks.

Add tool +
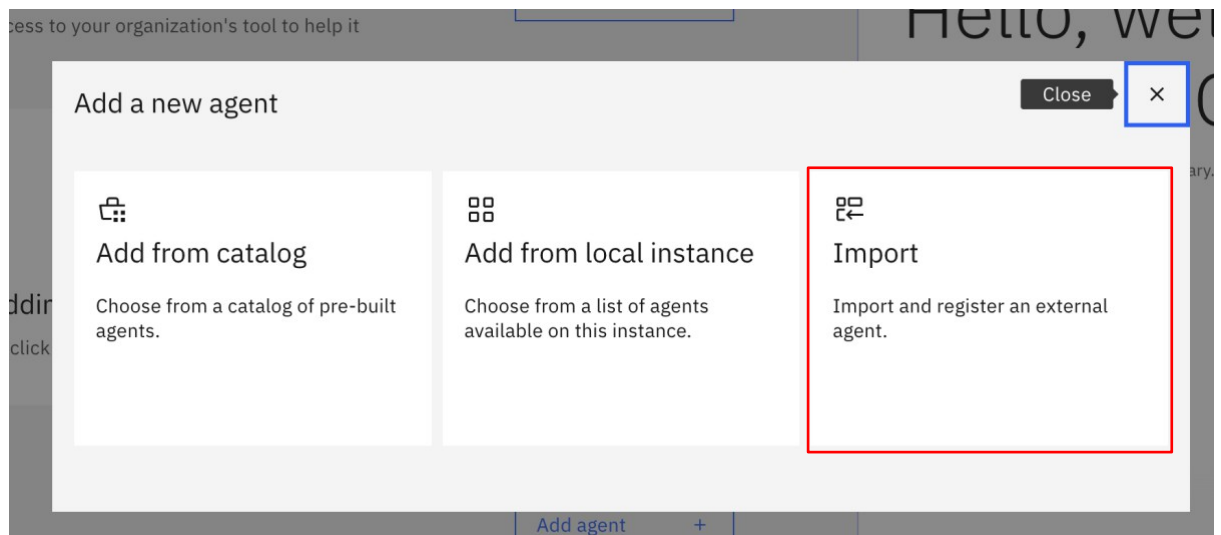
Start by adding a tool

To add a tool, click Add tool.

Agents

Identify agents to whom your agent can delegate tasks.

Add agent +

Start by adding an agent

You haven't added any agents to support your agent in collaboration.

g. You will be presented with 3 options. Select "Import"

h. From the option below, select "External agent" and click "Next" on the bottom left.

i. We will need to provide details of the external agent. The different details are in the "Connection Details" note, available in the folder.

j. Make sure your connection details are as below:

Import agent
Import an agent built on an external platform

Agent type

Register

Agent details

Provider

watsonx.ai   ∨   **Select watsonx.ai**

Authentication type   API key

API key   ∨   ••••••••   👁   **Refer to connection details**

Service instance URL

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/6ee572b6-a98d-4166-bd04-a5591226e66d/ai_service?ve   **Refer to connection details**

ⓘ If you need help finding this information, refer to External-agent Assistant import documentation

Define new agent
Provide details for how your agent will appear once added.

Display name

SupplierResearcher

The display name for this agent

Description of agent capabilities   22/1000

Research for Suppliers

Produce a short description of what this agent is capable of providing to your users. This will help the AI model determine the best
assistant that would help your users. What makes a good description?

Cancel   Back   Import agent

k. After you click "Import Agent", you will be brought back to the Agent Builder interface. The Agent portion will be populated now.

Testing the Agent

On the right of the agent builder allows us to preview the behaviour of our agent. We can test out with a few questions now:
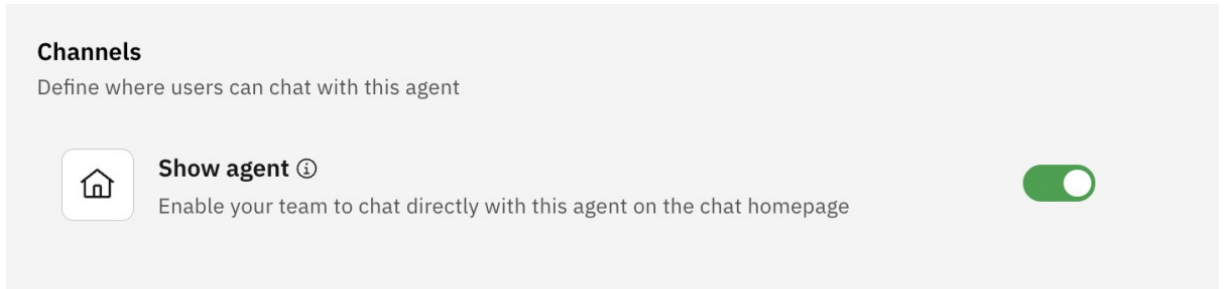
- Which supplier out of Excelentia Supplies and Global Office Supplies is viable to buy product Xtralife from. Give a list of pros and cons of each supplier

- Which supplier should i choose? i want an urgent delivery.
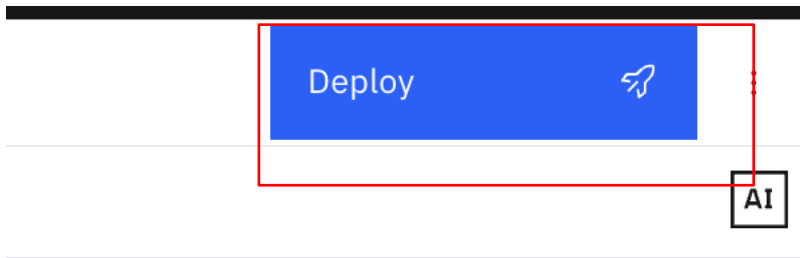
Deploying the Agent

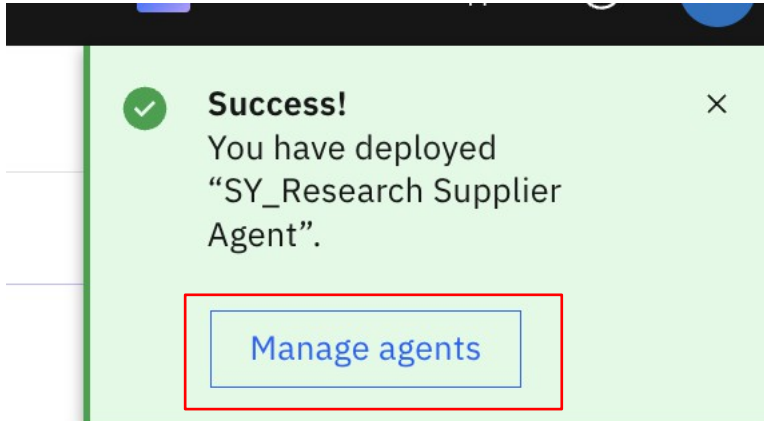Once we are satisfied with the agent, we are ready to deploy.

1. Ensure that the agent is available on the chat. This option is all the way at the bottom of agent builder.
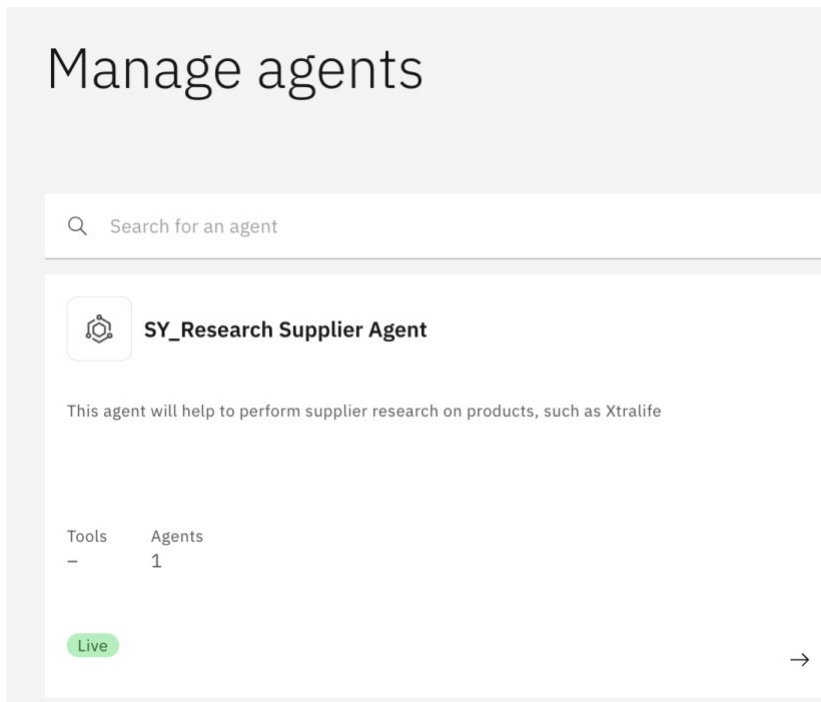

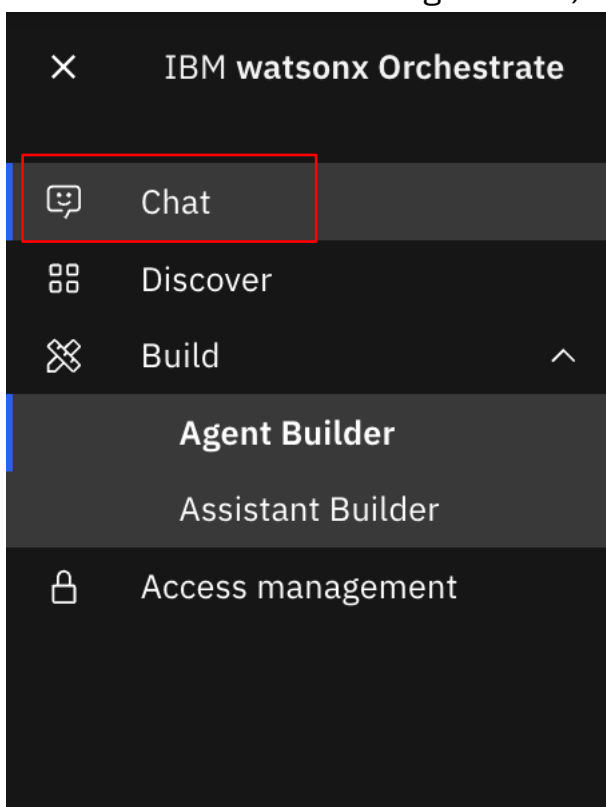
2. Then, click on "Deploy" on the top right.

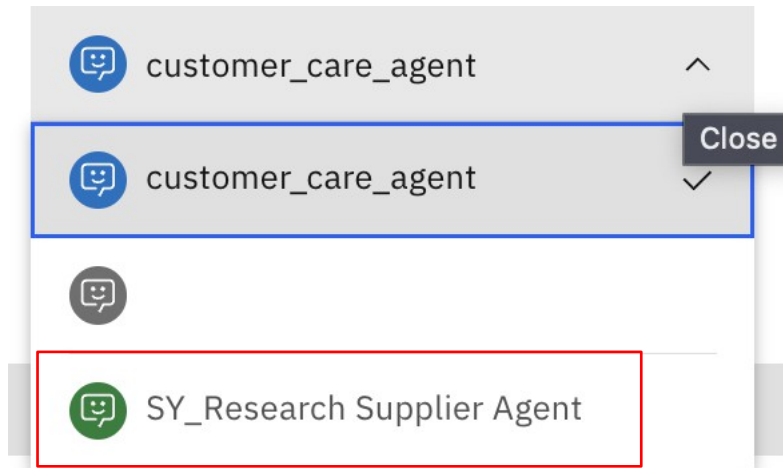3. Click on "Manage Agent" to see your successfully deployed agent.

ralife products

4. From the left hand hamburger menu, select "Chat".

5. Make sure you've selected your own agent from the drop down menu

6. Start chatting with your agent.