# **Watsonx Orchestrate agents’ integration lab**

This short lab introduces how to easily integrate external agents from watsonx.ai with Watsonx Orchestrate.

**Prerequisities:**

* **URL** of a deployed agent in watsonx.ai
* **API key** of a deployed agent watsonx.ai

*To obtain both information, finish Lab1: watsonx.ai agent lab*.

* Watsonx Orchestrate instance

*To initialize this instance, please finish Lab 2: watsonx Orchestrate ADK lab or follow instructions in* ***Watsonx Orchestrate trial.pdf*** *file.*

1. **Login**

Go to [https://dl.watson-orchestrate.ibm.com](https://dl.watson-orchestrate.ibm.com/) and log-in with the credentials.

1. **Building the main agent**

*If you already finished ADK Lab, you can skip this step and use main\_agent instead.*

First, let’s build a native watsonx Orchestrate agent distributing tasks to external agents – collaborators.

1. Open hamburger menu at the left top A white line on a black background

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2. Open Agent Builder

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1. Click on ***Create agent*** button.
2. Enter name for your master agent.

Example*: main\_agent*

1. Enter the description. be clear in the instructions when the agent is to be used. Example: *Hlavní agent. Řídí řešení problému a odpovídá uživateli.*

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1. Click **Create**
2. **Import watsonx.ai agent**
3. Once you create the main agent, scroll down to section **Agents** and select **Add Agent**
4. Click **Import** and choose **External agent.**
5. Enter following information:

**Provider:** watsonx.ai

**API key**: <your\_apikey>

**Service instance URL**: <your\_url>

**Name**: airbank\_agent

**Description**: *Agent providing answers to questions that can be searched on the web or a given url. It also provides information on Airbank mortgage loans*

1. Click **Import agent**

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1. **Testing the agent**
2. Go back to *main\_agent* and click **Deploy**

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1. Go back to the chat:

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1. **Lead following conversation:**

* “Wat moet ik doen om een gunstige rente te krijgen? Gebruik de volgende website: https://www.nn.nl/Particulier/Hypotheken.htm“*- utilizing a wx.ai agent web crawler*
* “J Wat zijn de maandelijkse betalingen voor een lening van EUR 248.500 met een rentepercentage van 5,85% gedurende 25 jaar?” - *utilizing an ADK mortgage\_advisor agent*
* “Wat is de drempeldatum?” *- utilizing a wx.ai agent knowledge base*
* “Wat is de reporente?” - *utilizing a main agent wiki search tool from ADK lab*

**5) Bonus: Add BeeAI agent from local instance**

1. Open your main agent again, scroll down to section **Agents** and select **Add Agent**
2. Choose **Add from local instance**
3. Select **deep\_researcher** external agentand click **Add to agent**.

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1. Replicate step **4) Testing the agent** on previous page
2. Lead the same conversation as before, this time add following questions to utilize BeeAI researcher agent:
   * “ Wie is het staatshoofd van Nederland?”
   * “ En wie is zijn vrouw?”

## **Appendix**

**Watsonx Orchestrate - adding an agent from external platforms:** <https://www.ibm.com/docs/en/watsonx/watson-orchestrate/current?topic=agents-adding-orchestration#agents-third-party-platforms>

**Guidelines to describe agents' capabilities:** <https://www.ibm.com/docs/en/watsonx/watson-orchestrate/current?topic=agents-guidelines-describe-capabilities>