# **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, see 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 a master agent, scroll down to section **Agents** and select **Add Agent**
4. Choose **Import** and **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*
6. 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:**

* “Kolik nabízí nejlepší úrok Airbank? Čerpej z následujícího webu: <https://www.airbank.cz/produkty/hypoteka/> “*- utilizing a wx.ai agent web crawler*
* “Jaká je výše měsíčních splátek úvěru ve výši 1 948 000 Kč s tímto úrokem na 20 let?”*- utilizing an ADK mortgage\_advisor agent*
* “Jak mi se splácením pomůže Chytrá rezerva z této banky?” *- utilizing a wx.ai agent knowledge base*
* “Co je to repo sazba?” - *utilizing a main agent wiki search tool from ADK lab*

## **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>