# 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

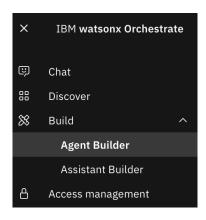
Go to <a href="https://dl.watson-orchestrate.ibm.com">https://dl.watson-orchestrate.ibm.com</a> and log-in with the credentials.

## 2) 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.

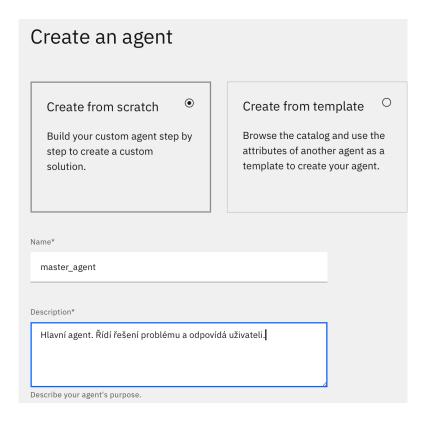
- 1) Open hamburger menu at the left top
- 2) Open Agent Builder



- 3) Click on Create agent button.
- 4) Enter name for your master agent.

Example: main\_agent

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



6) Click Create

### 3) Import watsonx.ai agent

- Once you create the main agent, scroll down to section Agents and select Add Agent
- 2) Click Import and choose External agent.
- 3) Enter following information:

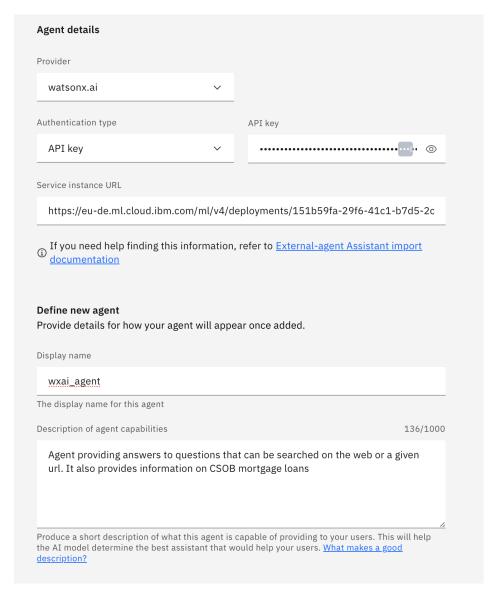
Provider: watsonx.ai
API key: <your\_apikey>

Service instance URL: <your\_url>

Name: airbank\_agent

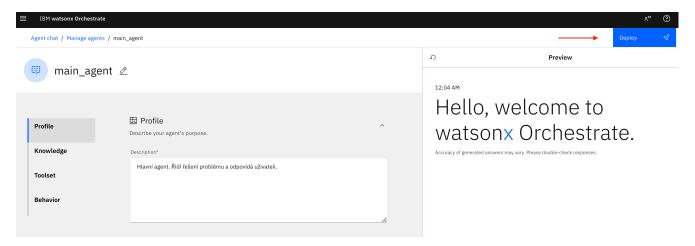
**Description**: Agent providing answers to questions that can be searched on the web or a given url. It also provides information on Airbank mortgage loans

4) Click Import agent

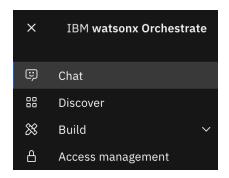


### 4) Testing the agent

1) Go back to main\_agent and click **Deploy** 



#### 2) Go back to the chat:

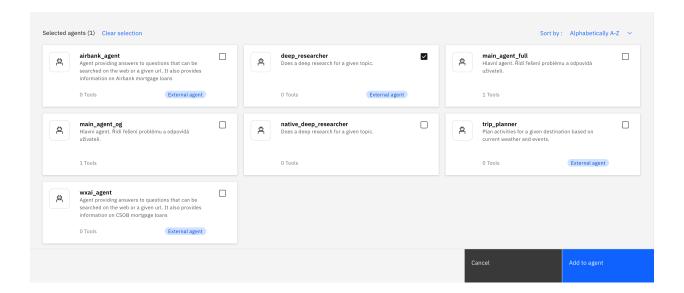


#### 3) Lead following conversation:

- o "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
- o "Wat is de drempeldatum?" utilizing a wx.ai agent knowledge base
- o "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 agent and click Add to agent.



- 4) Replicate step 4) Testing the agent on previous page
- 5) Lead the same conversation as before, this time add following questions to utilize BeeAI researcher agent:
  - " Wie is het staatshoofd van Nederland?"
  - o "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