

# AskHR: Automate HR tasks with Agentic

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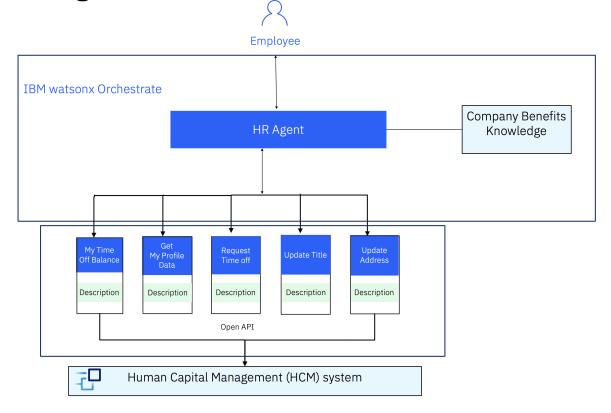
## **Use Case Description**

This use case targets developing and deploying an AskHR agent leveraging IBM watsonx Orchestrate, as depicted in the provided architecture diagram. This agent will empower employees to interact with HR systems and access information efficiently through conversational AI.

In this lab we will build an HR agent in watsonx Orchestrate, leveraging tools and external knowledge to connect to a simulated Human Capital Management System. This agent retrieves relevant information from documents to answer user queries and allows users to view and manage their profiles.

#### **Architecture**

# AskHR agent with Orchestrate



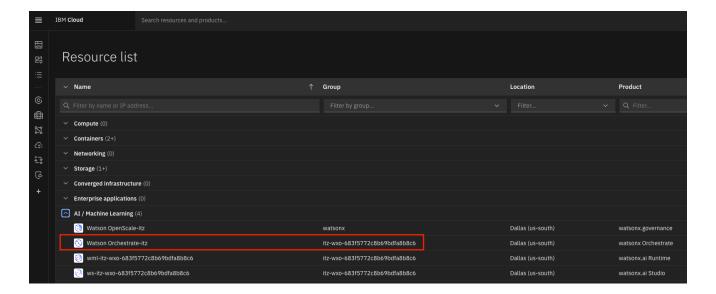
# **Pre-requisites**

- Check with your instructor to make sure all systems are up and running before you continue.
- Validate that you have access to the right techzone environment for this lab.
- Validate that you have access to a credentials file that you instructor will share with you before starting the labs.
- If you're an instructor running this lab, check the **Instructor's guides** to set up all environments and systems.

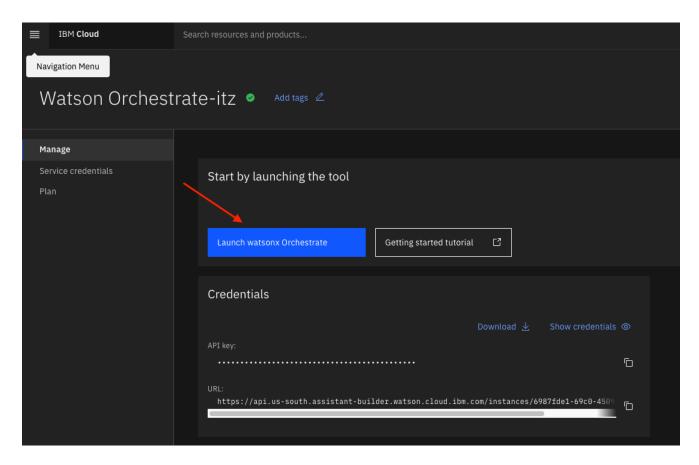
### Instructions

### **Open Agent Builder**

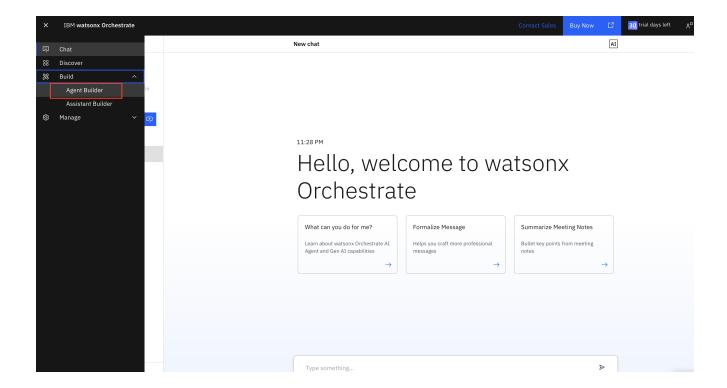
• Log in to IBM Cloud (cloud.ibm.com). Navigate to top left hamburger menu, then to Resource List. Open the Al/Machine Learning section. You should see a **watsonx Orchestrate** service, click to open.



• Click the "Launch watsonx Orchestrate" button.



 Welcome to watsonx Orchestrate. Open the hamburger menu, click on the down arrow next to Build. Then click on Agent Builder:

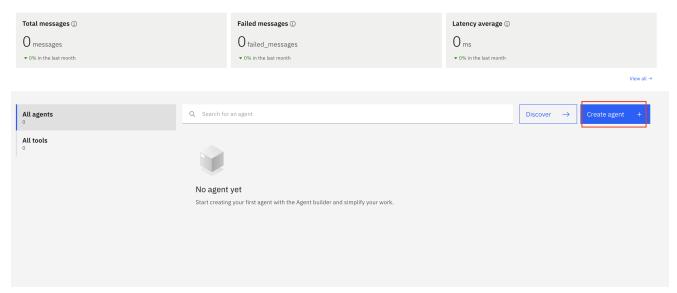


#### **Create HR Agent**

Agent chat /

1. Click on Create agent +:

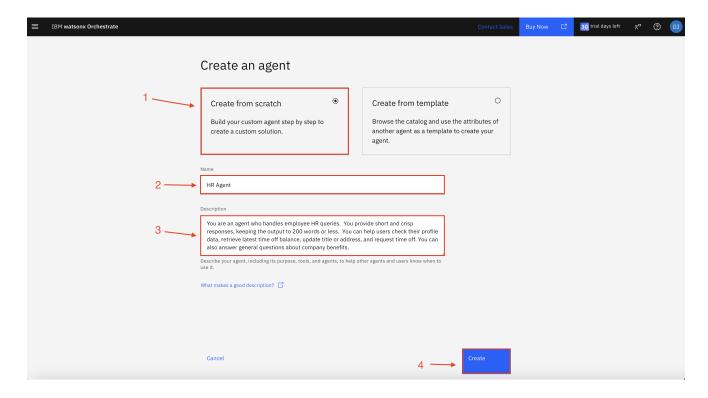
Build agents and tools



1. Select **Create from scratch**, give your agent a name, e.g. HR Agent, and fill in the **Description** as shown below:

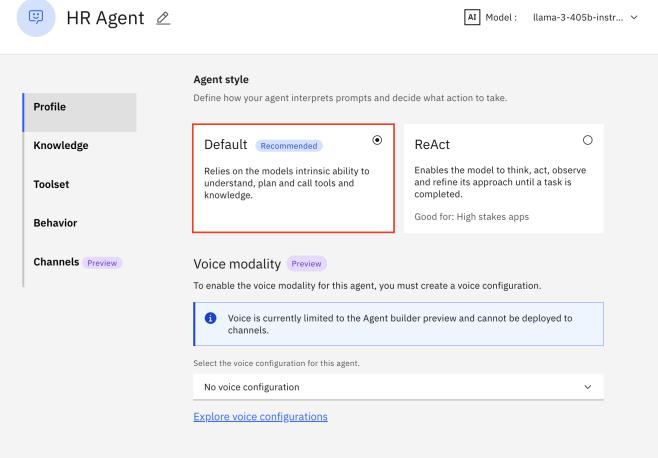
You are an agent who handles employee HR queries. You provide short and crisp responses, keeping the output to 200 words or less. You can help users check their profile data, retrieve latest time off balance, update title or address, and request time off. You can also

answer general questions about company benefits. Click on **Create**:

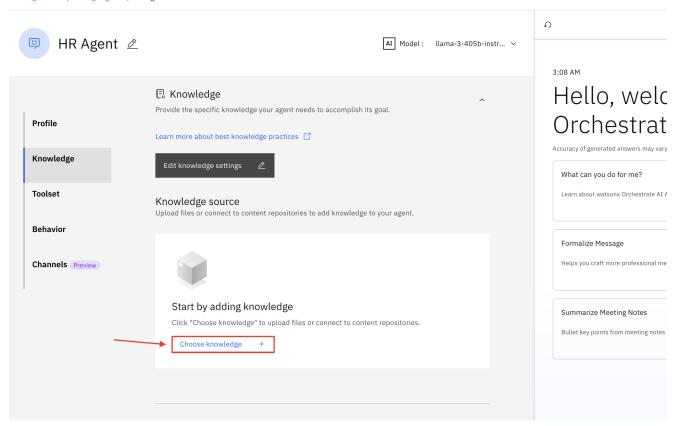


1. Select **Default** in **Agent style** section.

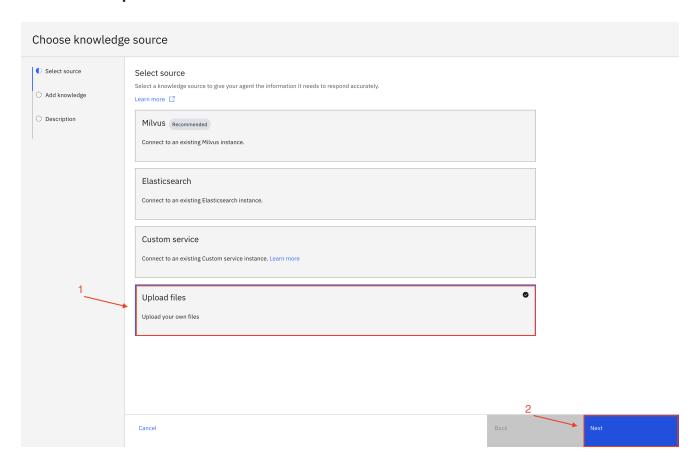




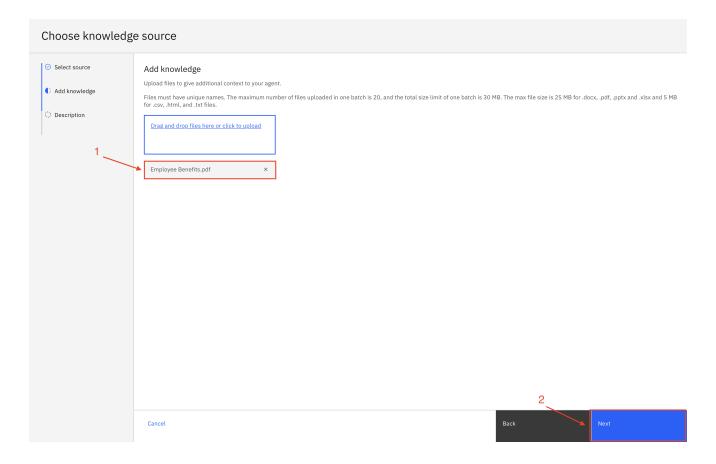
1. Scroll down the screen to the **Knowledge** section. Click on **Choose knowledge**.



1. Select **Upload files**. Click on **Next**.

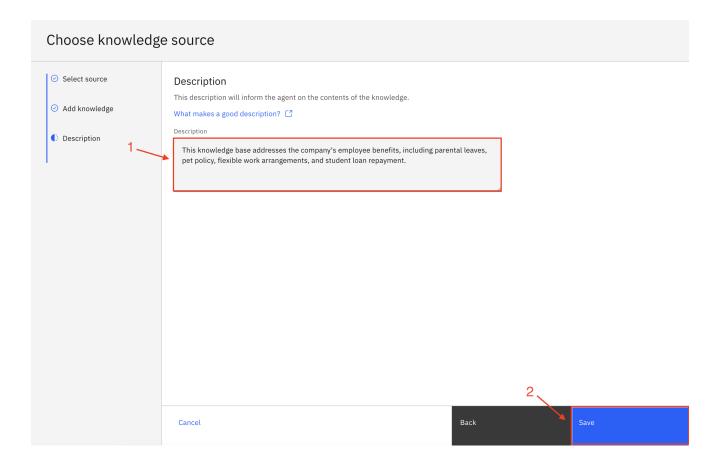


1. Download the Employee Benefits.pdf onto your system, then upload the file here. Click on **Next**.

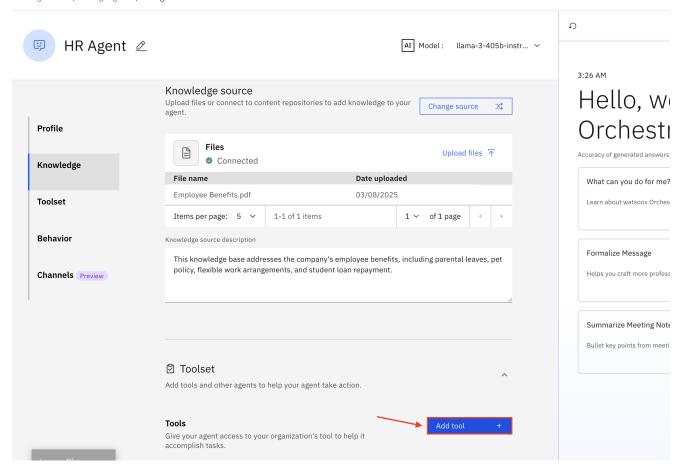


1. Copy the following description into the **Description** section and then click on **Save**:

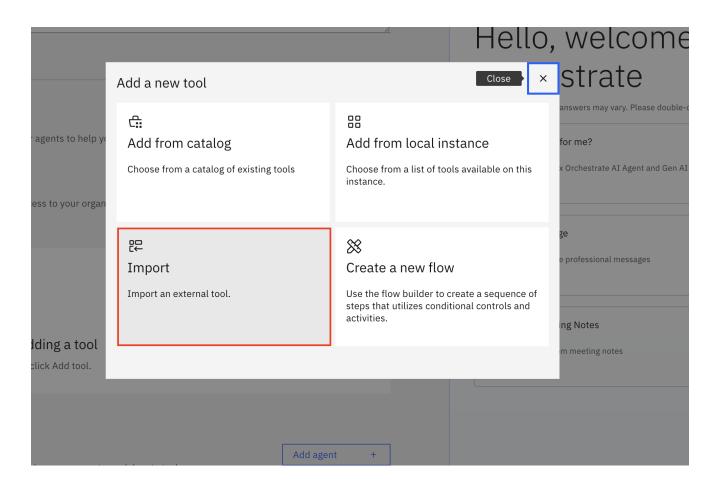
This knowledge base addresses the company's employee benefits, including parental leaves, pet policy, flexible work arrangements, and student loan repayment.



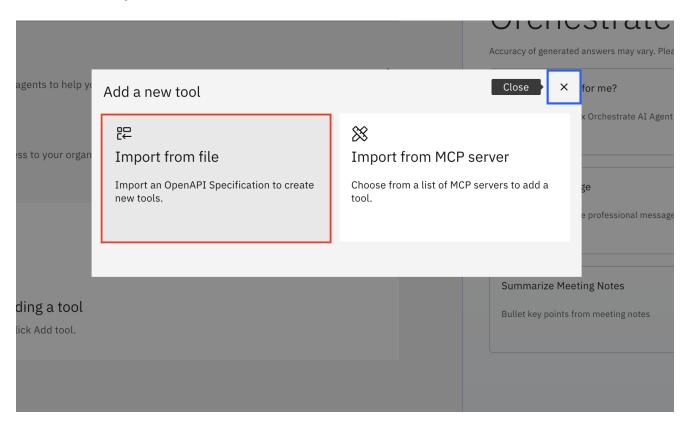
1. Scroll down to the Toolset section. Click on Add tool +:



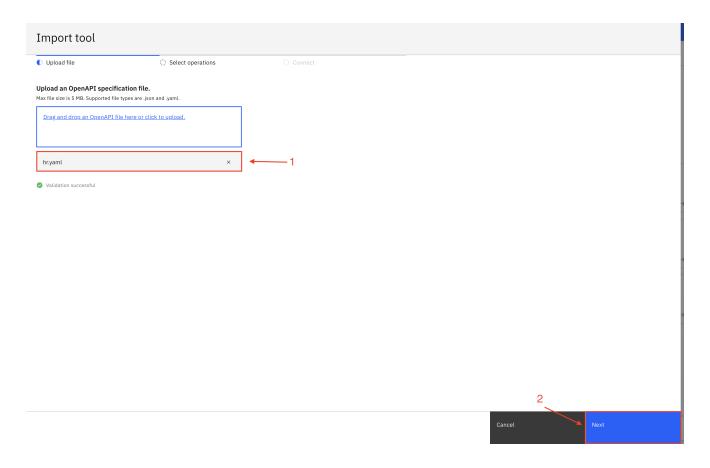
#### 1. Select Import:



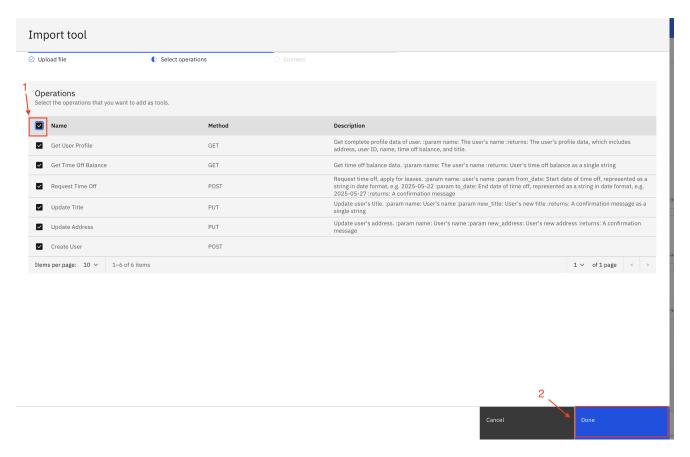
1. Select **Import from file**:



1. Drag and drop or click to upload the **hr.yaml** file (provided to you by the instructor), then click on **Next**:



1. Select all the operations and click on **Done**:



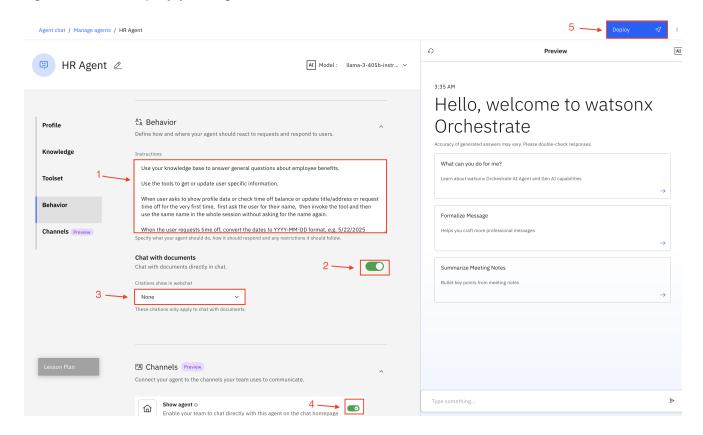
Scroll down to the **Behavior** section. Insert the instructions below into the **Instructions** field:

"Use your knowledge base to answer general questions about employee benefits."

Use the tools to get or update user specific information.

When user asks to show profile data or check time off balance or update title/address or request time off for the very first time, first ask the user for their name, then invoke the tool and then use the same name in the whole session without asking for the name again.

When the user requests time off, convert the dates to YYYY-MM-DD format, e.g. 5/22/2025 should be converted to 2025-05-22 before passing the date to the post\_request\_time\_off tool. ``` 1. Turn on the toggle button for **Chat with documents**. Select **None** in **Citations show in webchat**. Turn on the toggle button for **Show agent**. Click on **Deploy** in the top right corner to deploy your agent:



#### **Test HR Agent in Preview**

Test your agent in the preview chat on the right side by asking the following questions and validating the responses. They should look similar to what is shown in the screenshots below:

What is the pet policy?

You 08:28 PM

What is the pet policy?



watsonx 08:28 PM | Hide Reasoning ^



According to the employee benefits document, the pet policy is: "Bring your furry friend to work! If you're working from the office, your pet is always welcome to join you, making the office a more fun and relaxed place."

Show me my profile data.

I'd like to update my title.

You 08:29 PM

Show me my profile data



watsonx 08:29 PM

What is your name?

You 08:29 PM

Victoria Baker



watsonx 08:29 PM | Show Reasoning >

Your profile data is:

• Address: San Jose, CA

• ID: 11

• Name: Victoria Baker

• Requested time off: 6

• Time off balance: 44.28

• Title: Sr Engineer

You 08:30 PM

I'd like to update my title



watsonx 08:30 PM

What is your new title?

You 08:30 PM

Sr AI Engineer



watsonx 08:30 PM | Show Reasoning >

Your title has been updated to Sr AI Engineer.

Update my address What is my time off balance?

Update my address



watsonx 08:32 PM

What is your new address?

You 08:33 PM

222 Main St, San Francisco, CA 94105



watsonx 08:33 PM | Show Reasoning V

Your address has been updated to 222 Main St, San Francisco, CA 94105.

You 08:33 PM

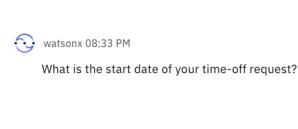
What is my time off balance?



watsonx 08:33 PM | Show Reasoning >

Hi Victoria, you have 44.28 days left for time off.

Request time off Show my profile data.



You 08:34 PM

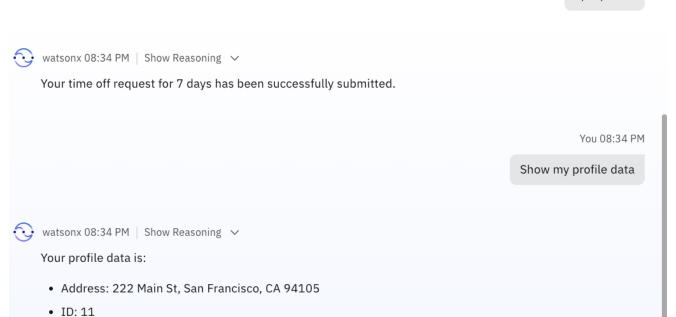
5/22/2025



What is the end date of your time-off request?

You 08:34 PM

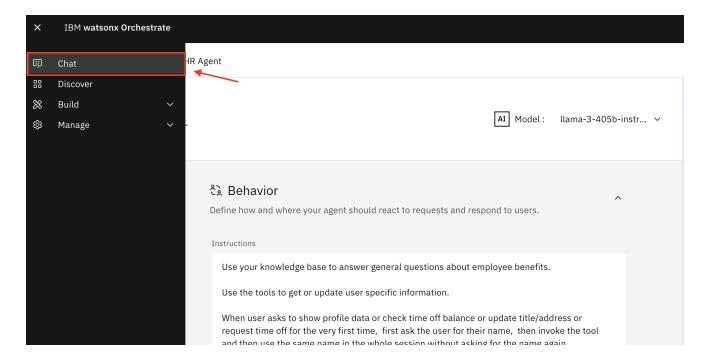
5/29/2025



#### **Test HR Agent AI Chat**

Name: Victoria Baker
Requested time off: 7
Time off balance: 44.28
Title: Sr AI Engineer

Test the Agent from the Al Chat window. Click on the hamburger menu in the top left corner and then click on **Chat**:



### Make sure **HR Agent** is selected. You can now test your agent:

