

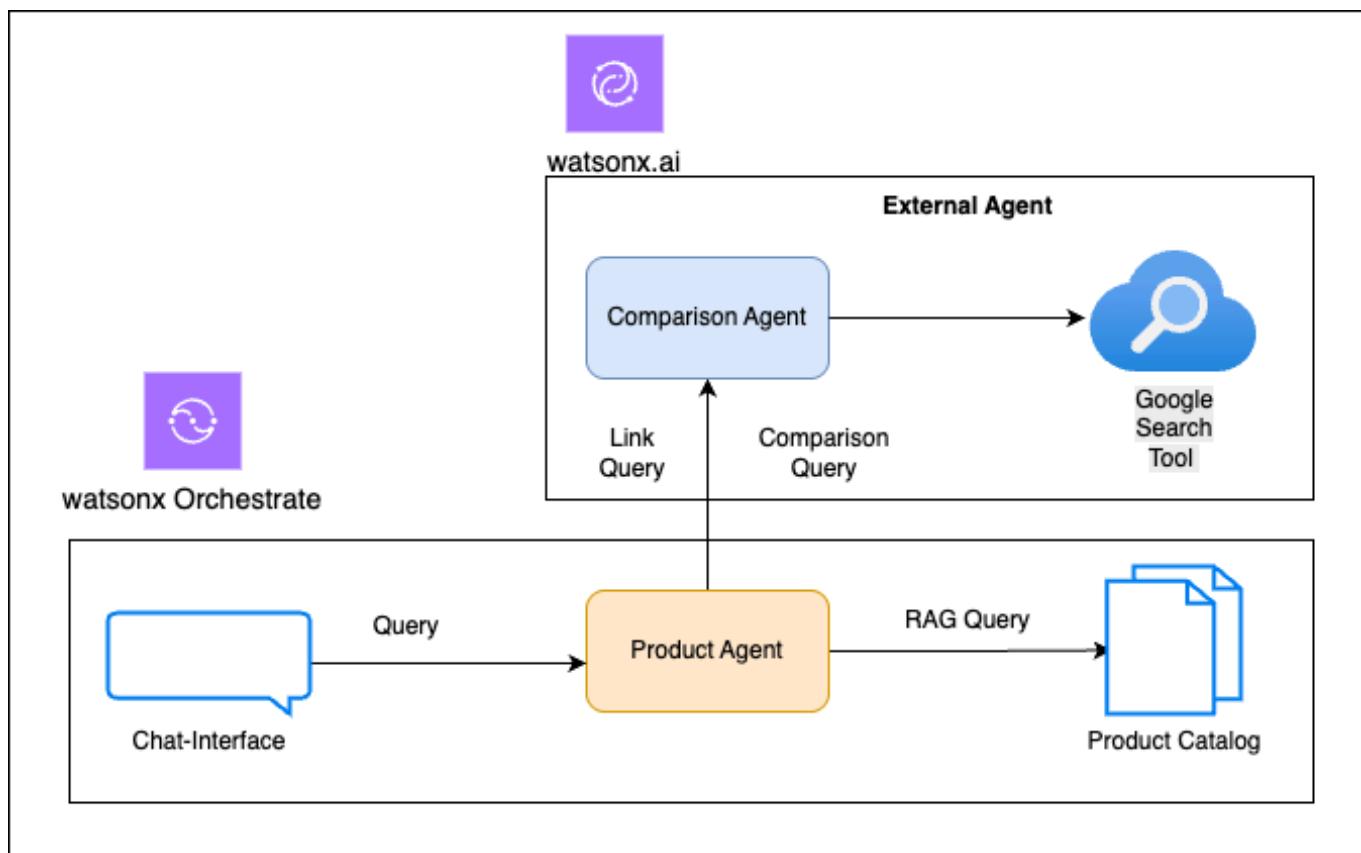


Use case: Business Automation

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III Architecture



Business Automation Architecture

Use Case Description

The sales department of ABC Motor Corp, an automotive large player, when preparing sales proposals, they were spending a lot of time understanding the features of competing products and comparing them

with their own products. ABC Motor Corp, needs an automated competitive analysis system to help their sales teams quickly identify and position their products against competitors. Traditionally, gathering competitor insights required extensive manual research, making it inefficient and prone to outdated information. Therefore, the goal of this use case is to create an AI enabled system that support the customer's competitive analysis and market research.

Pre-requisites

Instructors:

- Check the corresponding [Instructor's guide](#) to set up all environments and backend services.

NOTE: the `main` branch contains the latest release code. If you want to use a previous release, download the same [release](#) that will be used for participants' lab.
- Provide access to the data file located in the instructor repo at [usecase-setup/business-automation/assets/ABC_Motor_Product_Catalog.pdf](#) that will be uploaded as knowledge.

Participants:

- Validate that you have access to the right TechZone environment for this lab.
- Complete the [environment-setup](#) guide for steps on API key creation and project setup.
- Make sure you have created a [watsonx project](#) and a [Deployment Space](#) in your [watsonx](#) project.
- Validate that you have access to a credentials file that your instructor will share with you before starting the labs.
- Familiarity with AI agent concepts (e.g., instructions, tools, collaborators...)
- Make sure that your instructor has provided the following:
 - data file to be uploaded as knowledge

Create a watsonx.ai Agent

We will create a **Comparison Agent** in watsonx.ai's **Agent Lab** as part of this setup:

From the Home page of **Agent Lab**, click on **Build an AI agent to automate tasks**

The screenshot shows the IBM WatsonX homepage. At the top, there's a navigation bar with 'IBM watsonx' on the left, user info '2814569 - itz-watsonx-18', and a location dropdown 'Dallas'. Below the header, a banner says 'Welcome back, Mehul'. On the left, a sidebar has a section titled 'Train, deploy, validate, and govern AI models responsibly.' with a 'Customize my journey' button. The main content area features three cards: 'Chat and build prompts with foundation models' (with 'Open Prompt Lab' button), 'Build an AI agent to automate tasks' (with 'with Agent Lab' button), and 'Tune a foundation model with labeled data' (with 'with Tuning Studio' button). A 'Collapse' button is at the bottom right of this section. Below the main content, there are links for 'Jump back in' (Recently visited pages), 'Orchestrate workshop / Link Search Agent', 'Projects / Orchestrate workshop', 'Home / Projects', and 'Home / Settings'. The 'Discover' section is expanded, showing 'Developer access' (Project or space dropdown set to 'Project or space', Project ID '00000000-0000-0000-0000-000000000000', watsonx.ai URL 'https://us-south.ml.cloud.ibm.com') and 'Developer hub' (New watsonx Developer Hub to start coding fast, Make your first API request to inference a foundation model in watsonx.ai. Find the right foundation models and code libraries for your AI). A 'Collapse Discover section' button is at the top right of the 'Discover' panel.

Let's start the **Comparison Agent**.

Comparison Agent

Setup

1. **Name:** Comparison Agent

2. **Description:**

The agent compares the given data with additional information gathered from Google search results.

The screenshot shows the IBM WatsonX interface for creating a comparison agent. On the left, under the 'Build' tab, the 'Setup' section is active. A red box highlights the 'Name' field containing 'Comparison Agent - AL'. A red arrow labeled '1' points to this field. Another red box highlights the 'Description' field containing 'This agent compares the given data with additional information gathered from Google search results.'. A red arrow labeled '2' points to this field. Below these are sections for 'Icon' (with a placeholder image of a magnifying glass over a graph), 'Quick start questions' (with a note to add up to 4 questions), 'Configuration', and 'Tools'. On the right, the 'Agent preview' window displays a welcome message and a graphical representation of the agent's function, featuring a magnifying glass over a network-like diagram.

Configuration

1. Choose **LangGraph** as the framework.
2. Select **ReAct** as the architecture.
3. Enter the following for **Instructions**. These instructions guide your agent on what tasks it should perform:

You only refer from Automobile domain. You are an expert of automobile industry combining given details present in your context window. Your task is crawl and search the Top 3 product URLs (strictly from the automobile industry) and to analyse and compare products on the following features strictly: Range, Pricing, Acceleration, Top Speed, Interior and Safety Features If a feature is not applicable, mark it as N/A. Additionally, perform a SWOT analysis of top products (Strengths, Weaknesses, Opportunities, and Threats) Present the comparison in 3 tables one for the comparison , second for the rating numerical rating (X/5) and a star rating (★ out of ★★★★) for each feature and third for the SWOT analysis. Give heading to each table . After every table give two divider.

Instructions:

1. When asked for competitors of the given product, make sure that you provide only the name of the products and URLs of the products below the corresponding name.
2. The generated product URLs must be strictly from the automobile industry.
3. Title for Table 1: Feature Comparison
4. Title for Table 2: Rating Comparison
5. Make sure that the Rating Comparison table has both the numerical(X/5) and star rating(★ out of ★★★★)
6. The products should be the column names in all the tables.
7. The font of the Table Title must be bold and the font size must be

40% bigger as compared to the rest of the text.

8. Add appropriate space between each section in the table.

9. Name the References as Competitors

IBM watsonx

Projects / Wxo Bootcamp / Comparison Agent - AL

Build

Model: llama-3-3-70b-instruct

Setup

Configuration

Framework

LangGraph

ReAct

Architecture

Instructions

You are an expert of automobile industry combining given details present in your context window. Your task is crawl and search the Top 3 product URLs and to analyse and compare products on the following features strictly: Range, Pricing, Acceleration, Top Speed, Interior and Safety Features If a feature is not applicable, mark it as N/A. Additionally, perform a SWOT analysis of top products (Strengths, Weaknesses, Opportunities, and Threats) Present the comparison in 3 tables one for the comparison , second for the rating numerical rating (X/5) and a star rating (★ out of ★★★★★) for each feature and third for the SWOT analysis. Give heading to each table . After every table give two divider.

Instructions:

1. Title for Table 1: Feature Comparison
2. Title for Table 2: Rating Comparison
3. Make sure that the Rating Comparison table has both the numerical(X/5) and star rating(★ out of ★★★★★)
4. The products should be the column names in all the tables.
5. The font size of the Table Title should be 40% bigger as compared to the rest of the text.
6. Add appropriate space between each section in the table.
7. Name the References as Competitors.

Tools

Agent preview

Welcome to Comparison Agent - AL 09:24 PM

This agent compares the given data with additional information gathered from Google search results.

Type something...

Note: The Google Search Tool is added by default to the Agent. However, if you accidentally click the delete icon, follow the Tool steps below. Otherwise, you can skip this.

Tools

1. Click on the **Add Tool**.

Build

Model: llama-3-3-70b-instruct

Setup

Configuration

Tools

Add a tool

Create custom tool

Added tools (0)

2. Select **Google Search** as the tool to gather data.

Select a tool

Choose a tool to add to your agent.

The screenshot shows a list of search tools. The 'Google search' option is selected and highlighted with a red box. Other options include Wikipedia search, DuckDuckGo search, Webcrawler, Weather, Document search, and a search bar at the top.

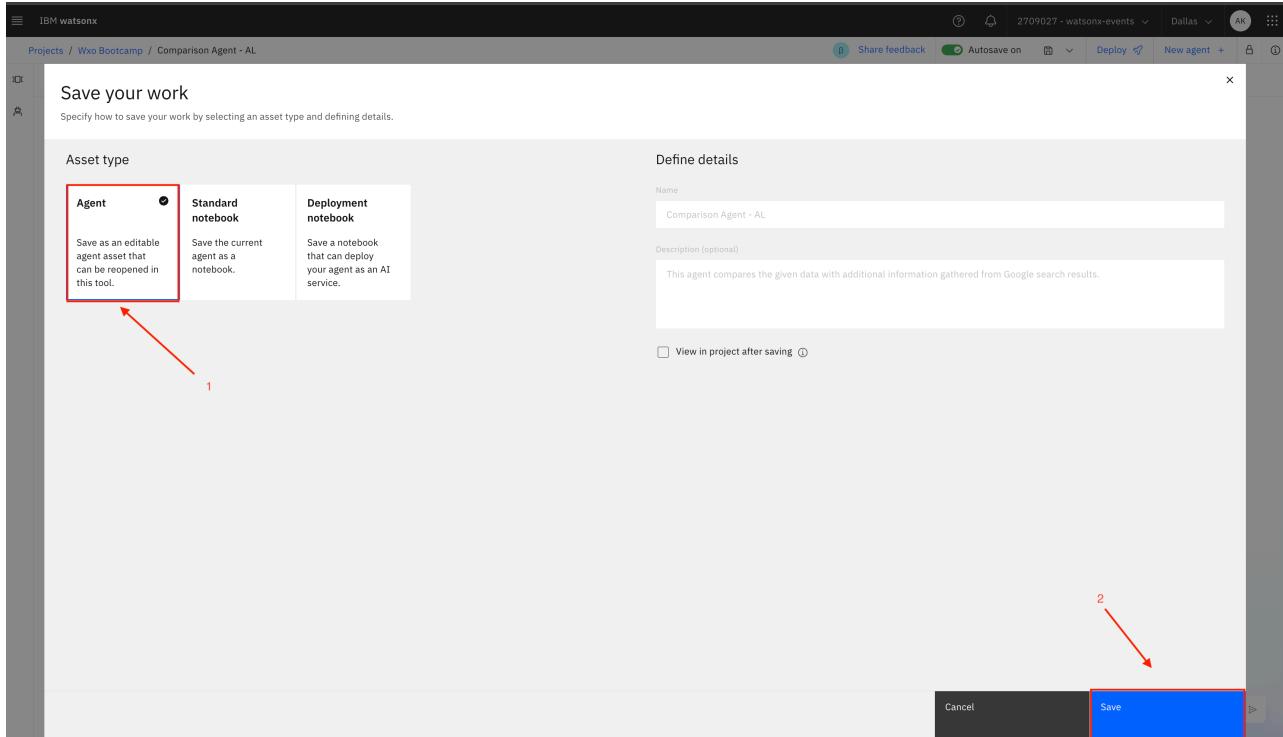
Saving and Deploying

Once the agent is created, save and deploy:

1. Click on the Disk icon (marked as 1), then to **Save As**

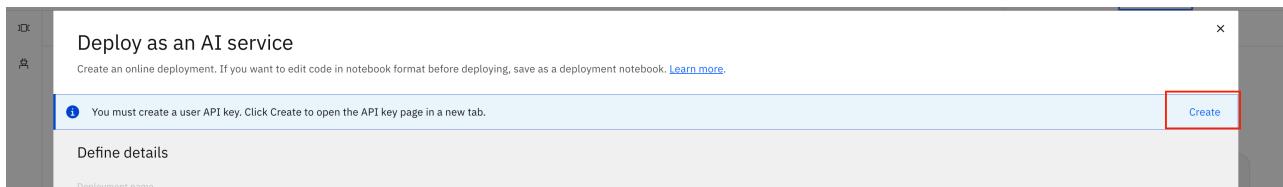
The screenshot shows the IBM WatsonX interface. On the left, the 'Build' tab is active, displaying configuration options like 'LangGraph' and 'React'. On the right, the 'Agent preview' section shows a welcome message and a visual representation of the agent's function. Two red arrows point to the 'Save As' button (marked 1) and the 'Deploy' button (marked 2) in the top right corner of the preview area.

2. Select **Agent** and click **Save**



3. Click on the **Deploy** button

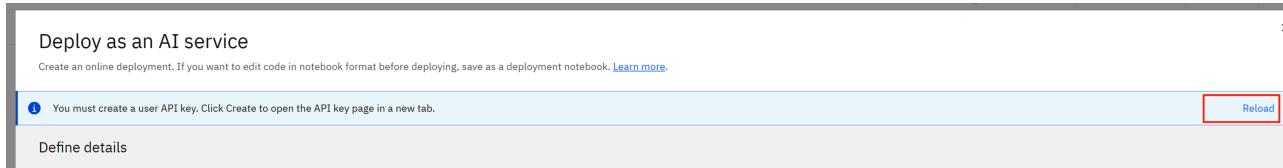
4. On the **Deploy as an AI service** page, you will be prompted to create a user api key. This will be used by **watsonx** to deploy your agent and is different from the **Cloud API key** created earlier. Click on **Create**.



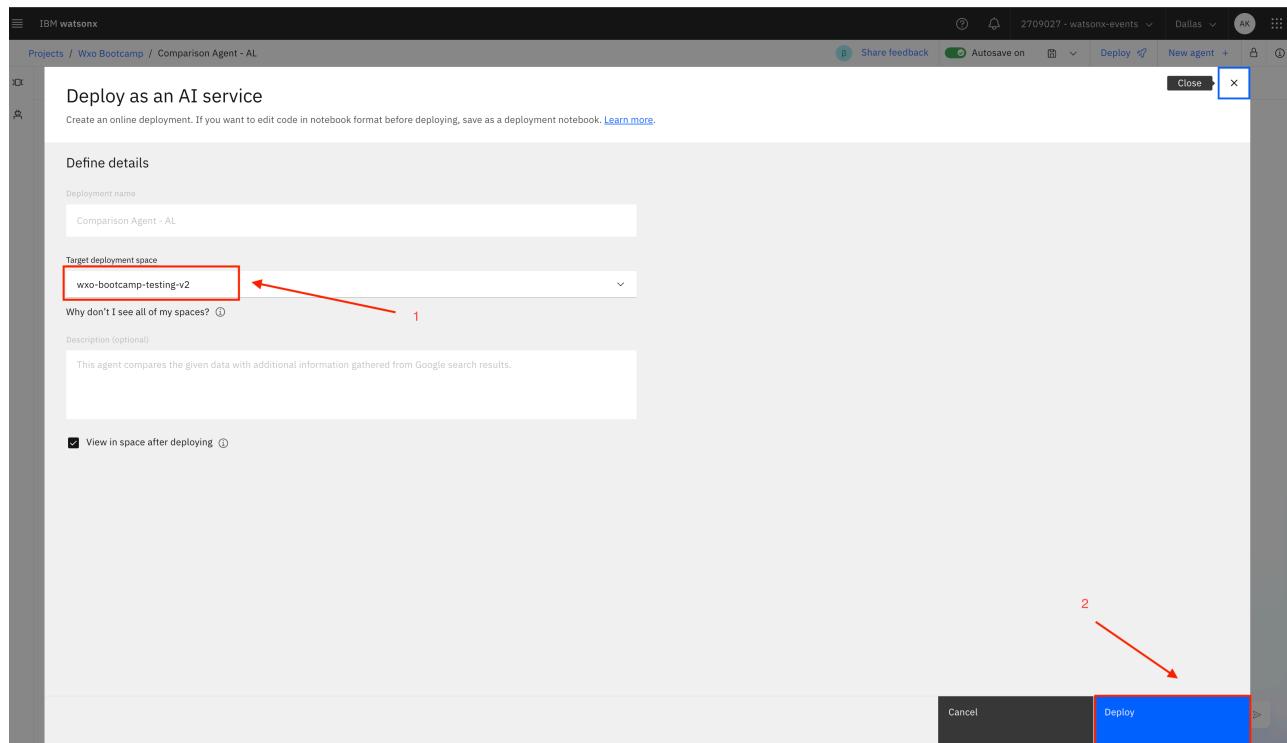
5. You'll be directed to another webpage. Click on **Create a key**.



6. Once a key is created, navigate back to **Deploy as an AI service** page. Click on **Reload**.



7. Make sure your **Targeted deployment space** (created previously when **watsonx** project was created) has been selected (marked as 1), click **Deploy** to deploy the agent (marked as 2)



YOU DID IT! you just created and deployed your first AI Agent. Now let's build more agents and integrate them together.

Integrating watsonx.ai agent as an External Agent in watsonx Orchestrate

To deploy your agent on Orchestrate, follow the steps below:

1. Go to the homepage of watsonx.ai Agent Lab.

2. Click on the hamburger menu and select **Deployments**.

The screenshot shows the IBM Watsonx web interface. On the left, a dark sidebar contains a navigation menu with various options like Home, Data, Projects, AI governance, Deployments (which is highlighted with a red box), Resource hub, Administration, Services, Access (IAM), Configurations and settings, Environment runtimes, Cloud integrations, and Support. Below the sidebar, the URL is https://dataplatform.cloud.ibm.com/wx/home?context=wx#.

The main content area features a "Discover" section with three cards: "Chat and build prompts with foundation models" (with "Start chatting..." button and "Open Prompt Lab" link), "Build an AI agent to automate tasks" (with "with Agent Lab" link), and "Tune a foundation model with labeled data" (with "with Tuning Studio" link). Below this is a "Developer access" section with fields for "Project or space" (set to "wxo-agent-workshop-orchestrate") and "Project ID" (set to "00000000-0000-0000-0000-000000000000"). To the right is a "Developer hub" section with a "New watsonx Developer Hub to start coding" button.

3. Click on the **Spaces** tab and select the space where you deployed the agent.

The screenshot shows the "Spaces" tab selected in the IBM Watsonx interface. The top navigation bar includes tabs for "Activity" and "Spaces". The main content area displays a table of deployment spaces:

Name	Last modified	Your role	Collaborators	Tags	Type	Online deployments	Jobs
wxo-bootcamp-testing-v2	May 9, 2025, 10:58 AM	Admin	AK		Production	2	0

At the bottom, there are pagination controls: "Items per page: 20" and "1–1 of 1 items".

4. Click on the **Assets** tab and select the agent.

The screenshot shows the 'Assets' tab selected in the navigation bar. On the left, there's a sidebar with 'Asset types' and a note about auto-categorization. The main area displays a table titled 'All assets' with one item:

Name	Last modified
Comparison Agent - AL AI service	1 hour ago Akshay Kalane (You)

At the bottom, there are pagination controls for 'Items per page' (20) and '1-1 of 1 items'.

5. Then you will go the the main deployment page select your agent from the list.

The screenshot shows the 'Deployments' tab selected in the navigation bar. The main area displays a table with one item:

Name	Type	Status	Tags	Last modified
Comparison Agent - AL	Online	Deployed	wx-agent	1 hour ago Akshay Kalane (You)

To the right, there's a detailed view of the asset:

- About this asset**
 - Name:** Comparison Agent - AL
 - Description:** This agent compares the given data with additional information gathered from Google search results.
- Asset Details**
 - Type: python
 - AI service ID: 6b941e3a-de5f-46...
 - Software specification: ai-service-v6-a-software-specification
- Tags**
 - wx-agent
- Last modified**
 - 1 hour ago by Akshay Kalane
- Created on**
 - May 9, 2025 by Akshay Kalane

At the bottom, there are pagination controls for 'Items per page' (20) and '1-1 of 1 items'.

6. Then copy the streaming **Public endpoint**.

Endpoints for inferencing ⓘ

Private endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/faac08dc-000e-4ad0-98fd-8ab4da310269/ai_service?version=2021-05-01

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/faac08dc-000e-4ad0-98fd-8ab4da310269/ai_service_stream?version=2021-05-01

Public endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/faac08dc-000e-4ad0-98fd-8ab4da310269/ai_service?version=2021-05-01

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/faac08dc-000e-4ad0-98fd-8ab4da310269/ai_service_stream?version=2021-05-01

Learn more about the 2021-05-01 version query parameter

Code snippets

cURL Java JavaScript Python Scala

```
# NOTE: you must set $API_KEY below using information retrieved from your IBM Cloud account (https://dataplatform.cloud.ibm.com/docs/content/wsj/analyze-data/ml-authentication.html?context=whats-new#retrieve-access-token)
curl -insecure -X POST -header "Content-Type: application/x-www-form-urlencoded" -header "Accept: \napplication/json" -data-urlencode "grant_type=urn:ibm:params:oauth:grant-type:apikey" \
--data-urlencode "apikey=$API_KEY" "https://iam.cloud.ibm.com/identity/token"

# the above CURL request will return an auth token that you will use as $IAM_TOKEN in the scoring request below
# TODO: manually define and pass values to be scored below
curl -X POST --header "Content-Type: application/json" --header "Accept: application/json" --header "Authorization: \nBearer $IAM_TOKEN" -d '[{"messages": [{"content": "", "role": ""}]}]' "https://us-south.ml.cloud.ibm.com/ml/v4/deployments/faac08dc-000e-4ad0-98fd-8ab4da310269/ai_service_stream?version=2021-05-01"
```

Now let's go to Orchestrate, create other agent and import this agent in that one.

Create an Orchestrate Agent

In Orchestrate, we will create our main agent, as outlined below:

Product Agent

Note: Before starting the Agent creation, ensure you have generated an [IBM Cloud API key](#).

1. Go to the Orchestrate home page, click on the hamburger menu (≡), select **Build**, and then choose **Agent Builder**.

New chat

8:14 PM

Hello, welcome to watsonx
Orchestrate

Accuracy of generated answers may vary. Please double-check responses.

What can you do for me?

Learn about watsonx Orchestrate AI Agent and Gen AI capabilities

Formalize Message

Helps you craft more professional messages

Summarize Meeting Notes

Bullet key points from meeting notes

Type something... ➤ Lesson Plan

2. Click on the **Create Agent** button.

Total messages ⓘ 0 ▾ 0% from the previous day

Failed messages ⓘ 0 ▾ 0% from the previous day

Latency average ⓘ 0 ms ▾ 0% from the previous day

All agents 0

All tools 0

Search for an agent

No agent yet
Start creating your first agent with the Agent builder and simplify your work.

Discover → Create agent +

3. Select **Create from scratch** (#1 on image below)

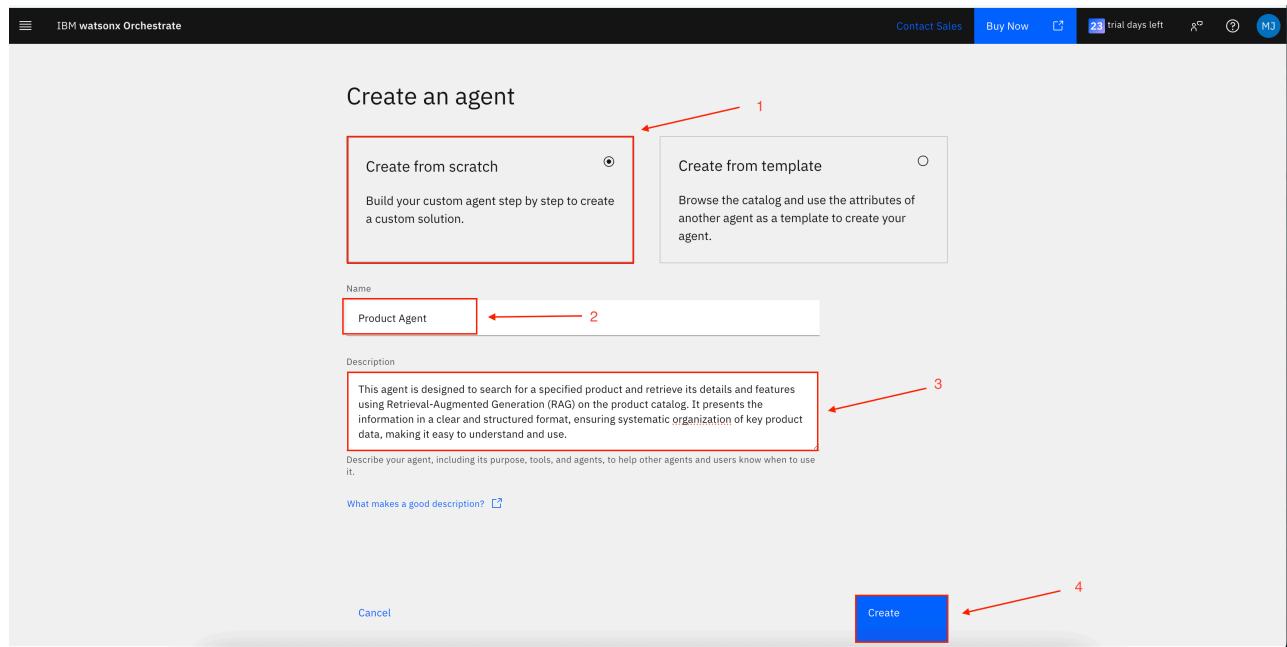
Name (#2 on image below):

Product Agent

Description (#3 on image below):

This agent is designed to search for a specified product and retrieve its details and features using Retrieval-Augmented Generation (RAG) on the product catalog. It presents the information in a clear and structured format, ensuring systematic organization of key product data, making it easy to understand and use.

Click on **Create** button



4. Once the agent is created, go to the **Agent Configuration** page and set the model to **llama-3-405b-instruct** and the Agent style to **Default**.

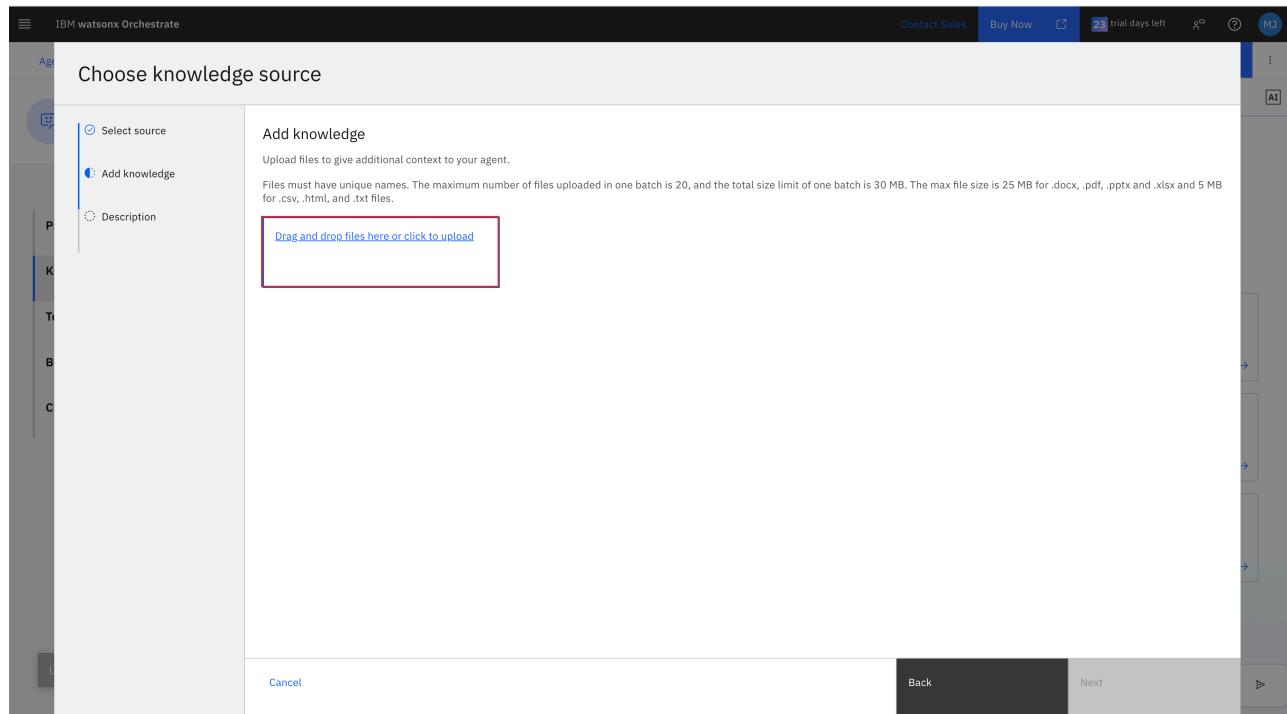
5. Scroll down to the **Knowledge** section and click on the **Choose knowledge** button.

The screenshot shows the IBM Watsonx Orchestrate interface. On the left, there's a sidebar with sections like Profile, Knowledge (which is currently selected), Toolset, Behavior, Channels (with a Preview link), and Lesson Plan. The main area has a card titled 'Knowledge' with the sub-section 'Knowledge source'. It says 'Start by adding knowledge' and has a 'Choose knowledge' button. To the right, there's a 'Preview' window showing a message: 'Hello, welcome to watsonx Orchestrate'. Below the preview is a text input field with placeholder 'Type something...'. At the top right, there are buttons for Contact Sales, Buy Now, trial days left, Deploy, and AI.

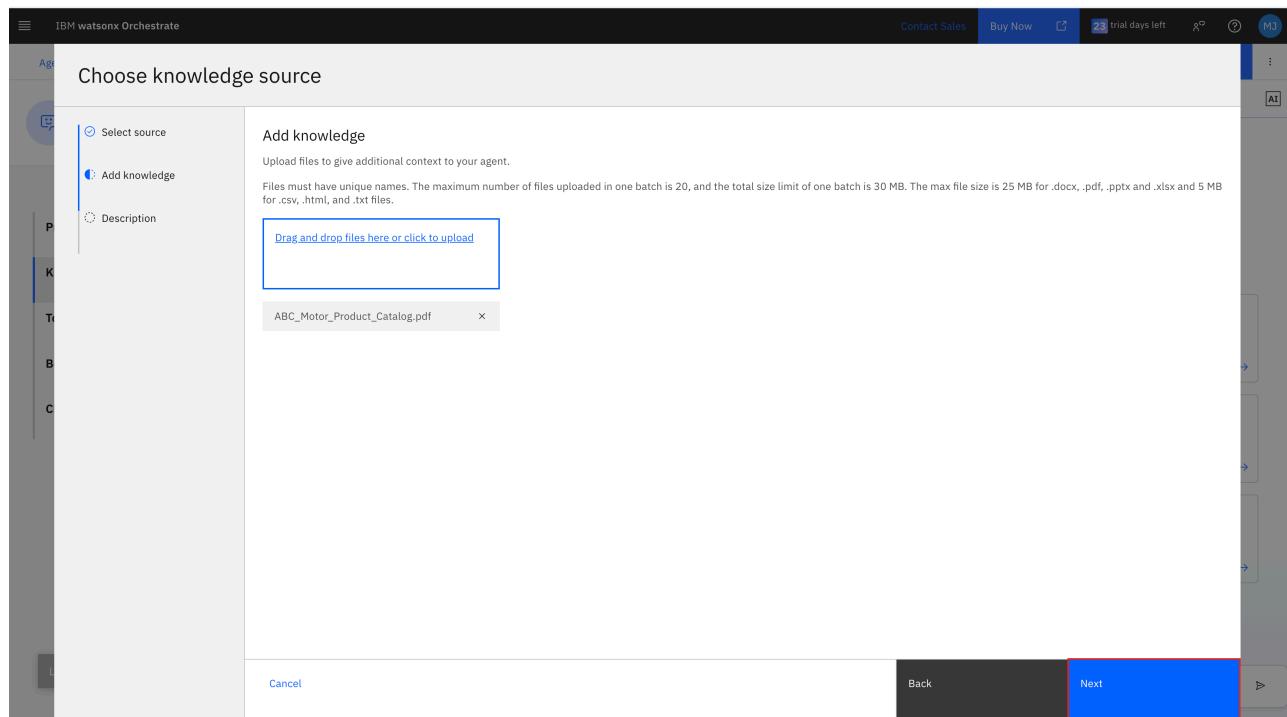
6. After clicking the **Choose knowledge** button, a pop-up window will appear. Select **Upload Files**, then click **Next**.

This screenshot shows a 'Choose knowledge source' dialog box. On the left, there are tabs for 'Select source', 'Add knowledge', and 'Description'. The 'Select source' tab is active. It lists three options: 'Milvus' (Recommended), 'Elasticsearch', and 'Custom service'. Below these is a section for 'Upload files' with the sub-instruction 'Upload your own files'. At the bottom, there are 'Cancel' and 'Next' buttons, with 'Next' being highlighted with a red box.

7. Next, choose the knowledge source. In our case, it's the **Product Catalog**. Drag and drop the file into the designated area.

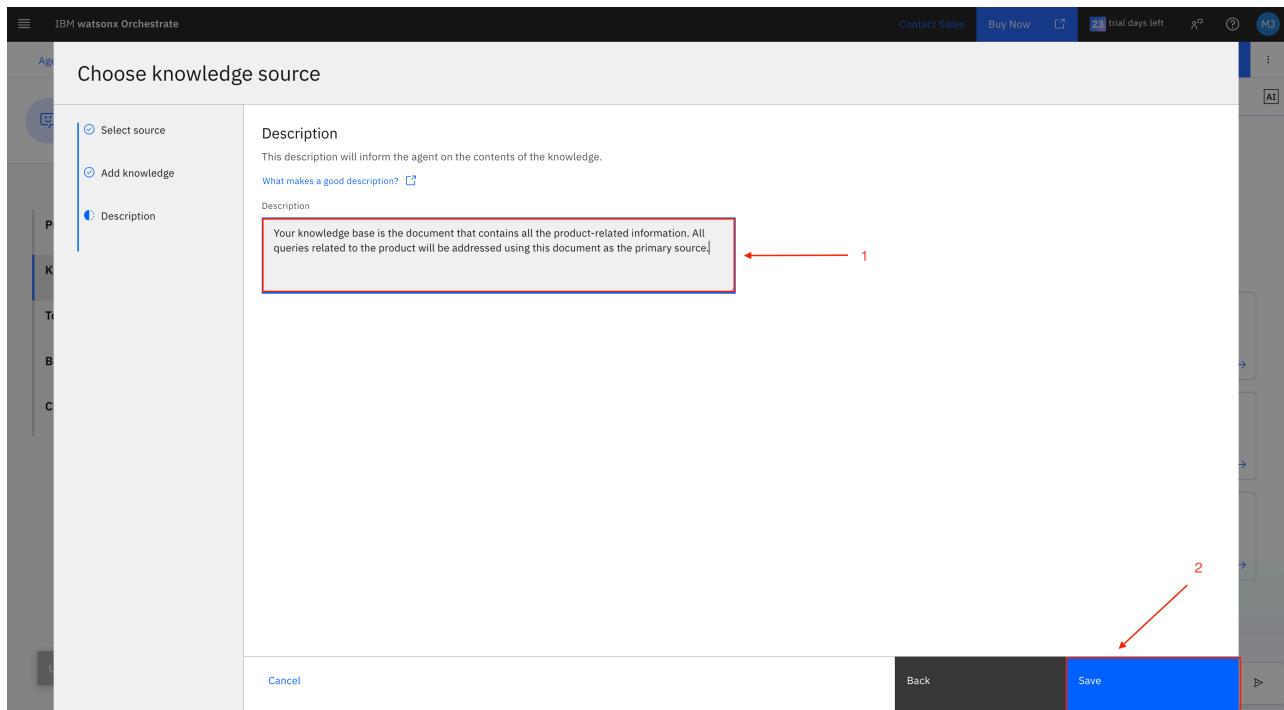


8. Once the file is uploaded, the screen will look like the one below. Click **Next** to proceed.



9. Add the description below in the **Description** field, and then click **Save. Description:**

Your knowledge base is the document that contains all the product-related information. All queries related to the product will be addressed using this document as the primary source.



- After completing all the above steps, your knowledge source will be added and will appear as shown in the image below.

The screenshot shows the 'Product Agent' profile page. On the left, there's a sidebar with tabs: 'Profile', 'Knowledge' (which is selected), 'Toolset', 'Behavior', and 'Channels'. The 'Knowledge' section has a 'Knowledge source' sub-section where a file named 'ABC_Motor_Product_Catalog.pdf' is listed. A red box highlights this file listing. On the right, there's a 'Preview' pane showing a welcome message: 'Hello, welcome to watsonx Orchestrate' and a list of AI capabilities: 'What can you do for me?', 'Formalize Message', and 'Summarize Meeting Notes'. A red box highlights the 'What can you do for me?' section. At the bottom of the preview pane, there's a text input field with 'Type something...' placeholder text.

11. Scroll down to the **Toolset** section, then in the **Agents** section click on the **Add Agent** button.

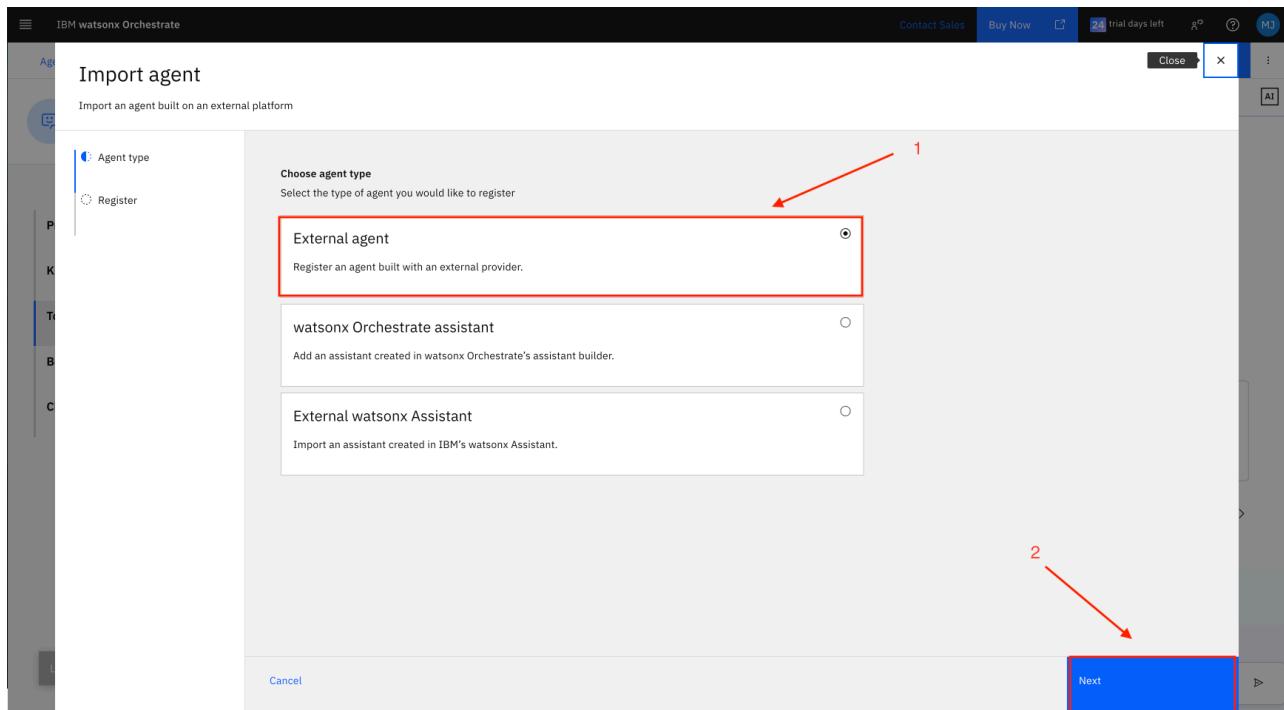
The screenshot shows the 'Product Agent' configuration page in the IBM Watsonx Orchestrate interface. The left sidebar has sections for Profile, Knowledge, Toolset (selected), Behavior, Channels (Preview), Lesson Plan, and Instructions. The main area has sections for Start by adding a tool, Agents (with an 'Add agent' button highlighted with a red box), and Behavior. On the right, there's a preview window showing a message from AI at 8:35 PM: "Hello, welcome to watsonx Orchestrate". Below the preview are three cards: 'What can you do for me?', 'Formalize Message', and 'Summarize Meeting Notes'. A text input field at the bottom says 'Type something...'. The top navigation bar includes Contact Sales, Buy Now, trial days left, Deploy, and AI icons.

12. From the pop-up menu, select the **Import**.

The screenshot shows a 'Add a new agent' pop-up menu. It has three options: 'Add from catalog' (with a description 'Choose from a catalog of pre-built agents.'), 'Add from local instance' (with a description 'Choose from a list of agents available on this instance.'), and 'Import' (with a description 'Import and register an external agent.', highlighted with a red box). The background shows the same Watsonx Orchestrate interface as the previous screenshot, with the 'Toolset' section selected and the 'Agents' sub-section visible.

Note: : We are now adding the Comparison Agent (an external agent) to the Product Agent, enabling it to delegate tasks to them.

13. On the next page, ensure that **External Agent** is selected (see #1 on image below). If it's not already selected, please choose it, then click the **Next** button (see #2 on image below).



14. On the next page, enter the following information:

1. **Provider:** From the drop down select **watsonx.ai**.

NOTE: If this isn't set, you will encounter the following error: **Authentication request failed because the expected Bearer token is missing from the request header**

2. **API key:** Enter your IBM Cloud API key.

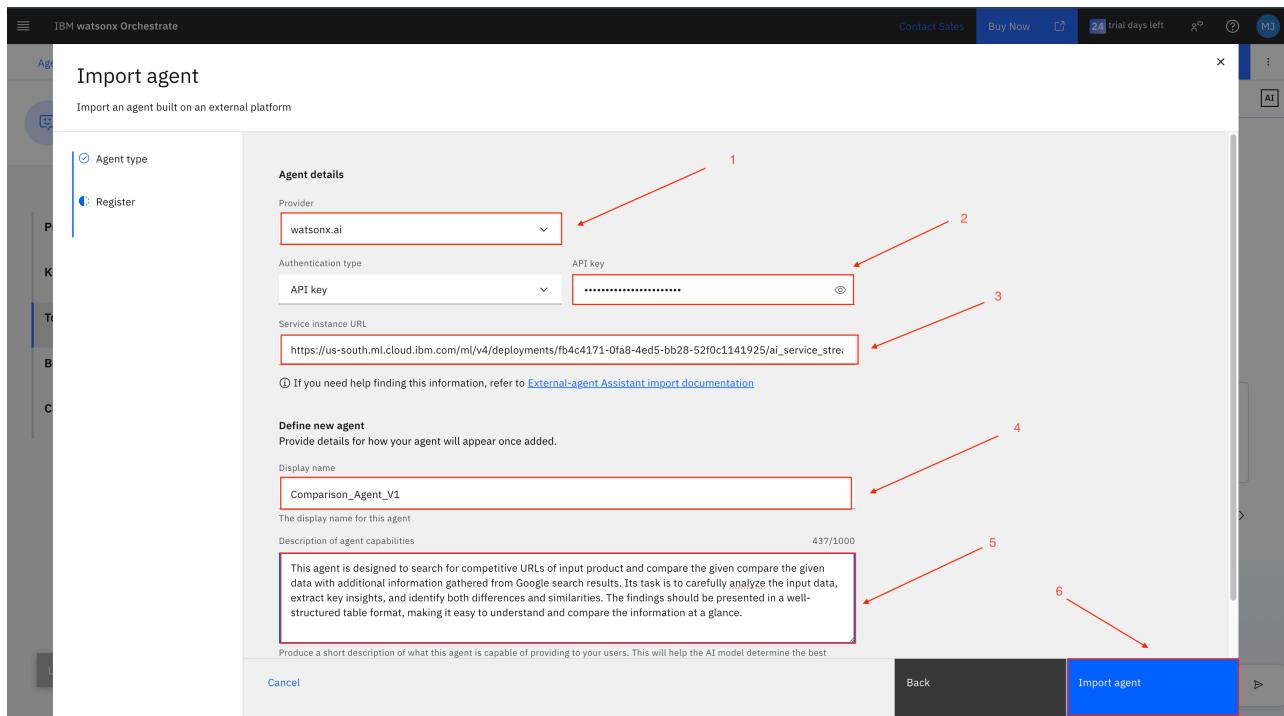
3. **Service instance URL:** Enter the public streaming endpoint URL of the agent that we copied in [step 6 above](#).

4. **Display name:** **Comparison-Agent-v1**

5. **Description of agent capabilities:**

This agent is designed to search for competitive URLs of input product and compare the given compare the given data with additional information gathered from Google search results. Its task is to carefully analyze the input data, extract key insights, and identify both differences and similarities. The findings should be presented in a well-structured table format, making it easy to understand and compare the information at a glance.

6. Click on the **Import Agent** button.



15. Once the delegated agents are added, they will appear as shown in the image below.

16. Scroll down to the **Behavior** section, add the following for **Description**:

This agent is responsible for handling product-related queries using Retrieval-Augmented Generation (RAG) on the product catalog. For general product queries, it retrieves structured information directly from the knowledge base. For queries involving URLs or web references or comparison, it delegates the task to the Comparison Agent.

Click the **Deploy** button:

This agent is responsible for handling product-related queries using Retrieval-Augmented Generation (RAG) on the product catalog. For general product queries, it retrieves structured information directly from the knowledge base. For queries involving URLs or web references or comparison, it delegates the task to the Comparison Agent.

Specify what your agent should do, how it should respond and any restrictions it should follow.

Chat with documents Chat with documents directly in chat.

8:38 PM

Hello, welcome to watsonx Orchestrate

Accuracy of generated answers may vary. Please double-check responses.

What can you do for me? Learn about watsonx Orchestrate AI Agent and Gen AI capabilities

Formalize Message Helps you craft more professional messages

Summarize Meeting Notes Bullet key points from meeting notes

admin

Note: : The Product Agent is now ready to handle product-related queries, delegating tasks to the **Comparison Agent** as needed.

Experience Agents in Action

Follow the steps above, then try interacting with the use case using these sample queries:

1. Go to the hamburger menu and select Chat

Chat

Product Agent

Profile

Description*

This agent is designed to search for a specified product and retrieve its details and features using Retrieval-Augmented Generation (RAG) on the product catalog. It presents the information in a clear and structured format, ensuring systematic organization of key product data, making it easy to understand and use.

What makes a good description? ⓘ

Agent style

Default Recommended ⓘ

ReAct

Relies on the model's intrinsic ability to understand, plan and call tools and knowledge.

2:10 PM

Hello, welcome to watsonx Orchestrate

Accuracy of generated answers may vary. Please double-check responses.

What can you do for me? Learn about watsonx Orchestrate AI Agent and Gen AI capabilities

Formalize Message Helps you craft more professional messages

Summarize Meeting Notes Bullet key points from meeting notes

Type something... ⓘ

2. Select the **Product Agent** from the dropdown menu, and you should be good to go.

The screenshot shows the IBM Watsonx Orchestrate web interface. At the top, there's a navigation bar with the title 'IBM Watsonx Orchestrate'. On the right side of the bar, there are several icons: 'Contact Sales', 'Buy Now', a trial days counter ('23 trial days left'), and user profile icons. Below the navigation bar, the main interface has a sidebar on the left containing sections for 'Agents' (with 'Product Agent' highlighted and a red border), 'Chats', 'Today', and 'New chat'. The main content area is titled 'New chat' and shows a message from 'Watson AI' at 8:41 PM: 'Hello, welcome to watsonx Orchestrate'. Below this message, there's a note: 'Accuracy of generated answers may vary. Please double-check responses.' Three cards are displayed: 'What can you do for me?' (Learn about watsonx Orchestrate AI Agent and Gen AI capabilities), 'Formalize Message' (Helps you craft more professional messages), and 'Summarize Meeting Notes' (Bullet key points from meeting notes). At the bottom of the main area is a search bar with the placeholder 'Type something...' and a send button. The bottom left of the sidebar has links for 'Create new agent' and 'Manage agents'.

3. Product Agent

Ask the following queries which should be routed to the Product Agent:

What are the products of the European Electric Vehicle Catalog?

Give me the info of BMW i4.

The screenshot shows a conversation in the IBM Watsonx Orchestrate interface. The user asks 'What are the products of ABC Motors?'. The AI responds with: 'According to the ABC Motor Product Catalog, the company offers four innovative electric vehicles: 1. Velocity S1 - a high-performance electric sedan 2. Zenith X3 - a compact electric sedan 3. AeroLux V7 - a luxury electric SUV 4. Stratos R5 - a compact electric SUV'. The user then asks 'Give me info of Zenith X3.'. The AI responds with: 'According to the ABC Motor Product Catalog, the Zenith X3 is a compact electric sedan that offers an excellent balance of performance, range, and affordability. Here are its features and specifications: • Acceleration: 0 to 100 km/h in as little as 3.1 seconds (in the Performance variant) • Range: up to 576 kilometers on a single charge (depending on the variant) • Interior: Minimalist design with a central touchscreen controlling most functions • Autopilot system: Advanced autopilot system • Variants: Standard Range Plus, Long Range, and Performance models'. At the bottom of the interface is a search bar with the placeholder 'Type something...' and a send button.

4. Comparison Agent

To compare the retrieved data, ask:

Give me URLs of the competitors of the above product and show me the comparison as well.

IBM Watsonx Orchestrate | AI

What are the products of ABC Motors?

Please note that these are the only features and specifications mentioned in the catalog for the Zenith X3.

You 08:28 PM

Give me the URLs of the competitors of the above product and show me the comparison as well.

watsonx 08:28 PM | Show Reasoning ▾
The top 3 competitors of the Zenith X3 are:
1. Tesla Model 3 - <https://www.tesla.com/model3>
2. Hyundai Ioniq 5 - <https://www.hyundai.com/worldwide/en/models/ioniq5>
3. Volkswagen ID.4 - <https://www.volvo.com/en/models/id4.html>

Here are the comparisons of the products:

Feature Comparison

Feature	Zenith X3	Tesla Model 3	Hyundai Ioniq 5	Volkswagen ID.4
Range	up to 576 km	up to 560 km	up to 470 km	up to 520 km
Pricing	\$35,000 - \$50,000	\$35,000 - \$60,000	\$30,000 - \$45,000	\$30,000 - \$45,000
Acceleration	0-100 km/h in 3.1 s	0-100 km/h in 3.4 s	0-100 km/h in 5.2 s	0-100 km/h in 6.2 s
Top Speed	250 km/h	250 km/h	185 km/h	160 km/h
Interior	Minimalist design	Premium interior	Modern design	Spacious interior
Safety Features	Advanced autopilot system	Advanced safety features	Advanced safety features	Advanced safety features

Type something... ➤

IBM Watsonx Orchestrate | AI

What are the products of ABC Motors?

Acceleration	5/5 ★★★★★	5/5 ★★★★★	3/5 ★★★	2/5 ★★
Top Speed	5/5 ★★★★★	5/5 ★★★★★	3/5 ★★★	2/5 ★★
Interior	4/5 ★★★★	5/5 ★★★★★	4/5 ★★★★	4/5 ★★★★
Safety Features	5/5 ★★★★★	5/5 ★★★★★	5/5 ★★★★★	5/5 ★★★★★

SWOT Analysis

Competitor	Strengths	Weaknesses	Opportunities	Threats
Zenith X3	Advanced autopilot system, minimalist design	Limited range, high price	Expanding electric vehicle market, increasing demand for autonomous vehicles	Competition from established brands, regulatory challenges
Tesla Model 3	Premium interior, advanced safety features	High price, limited range	Expanding electric vehicle market, increasing demand for autonomous vehicles	Competition from new entrants, regulatory challenges
Hyundai Ioniq 5	Modern design, affordable price	Limited range, limited safety features	Expanding electric vehicle market, increasing demand for affordable electric vehicles	Competition from established brands, regulatory challenges
Volkswagen ID.4	Spacious interior, affordable price	Limited range, limited safety features	Expanding electric vehicle market, increasing demand for affordable electric vehicles	Competition from established brands, regulatory challenges

Please note that this is a general comparison and the actual features and specifications may vary depending on the region and market.

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