# Lab 1: Using out-of-the-box skills and creating a skill flow

### **Use Case**

In this tutorial we import a skill to generate a welcome message for new hires using the watsonx.ai generate content skill. We then use another skill (Outlook) to send the previously generated message by email. Finally, we combine the two skills into a **Skill Flow**, to accomplish a more complex multi-step task. The high-level steps to accomplish this are as follows:

- 1. Connect to watsonx.ai application and add the generate content skill to AI chat
- 2. Test the skill by generating a welcome email to a new hire
- 3. Connect to Outlook application and add the skill to send an email to AI chat
- 4. Test the skill by sending email to yourself
- 5. Create a skill flow by combining the two skills you just added
- 6. Test the skill by generating a new hire welcome email and sending it to yourself

# **Assumptions**

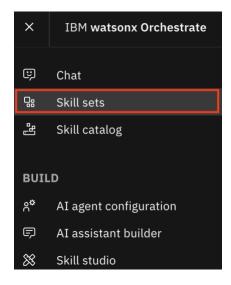
See lab **README** file for details

To complete this lab you need:

- 1. Access to an IBM watsonx Orchestrate tenant (on AWS or on IBM Cloud)
- 2. As of now (2/16/25) you will need admin rights to connect skills to the AI chat. In the future admin rights may not be required.
- 3. Outlook email ID and credentials (see lab **README** file)

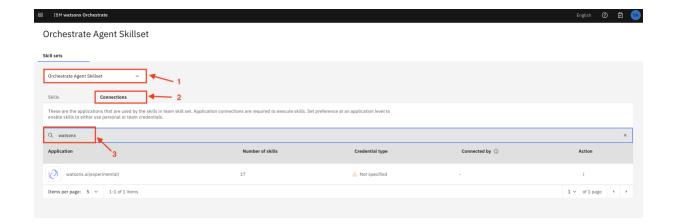
# Step 1: Connect to watsonx.ai application and add the generate content for an email skill to AI chat

- 1. Log into watsonx Orchestrate with your IBM ID
- 2. Navigate to **Skill sets** in the hamburger menu:



**Note:** if you are using watsonx Orchestrate on AWS, you would need to go into **Manage Team -> Skill sets** 

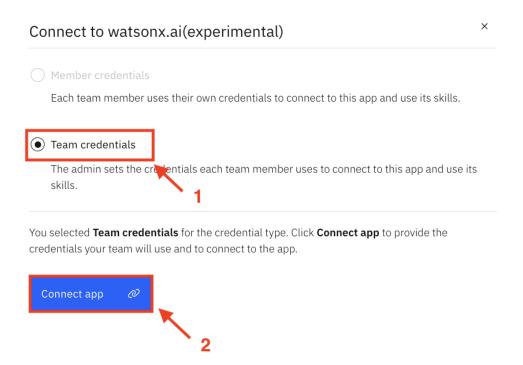
- 3. Search for an application with skills you want to use in AI chat, i.e. watsonx.ai in this case
  - 1. Select Orchestrate Agent Skillset
  - 2. Select Connections panel
  - 3. Search for application name (watsonx.ai)



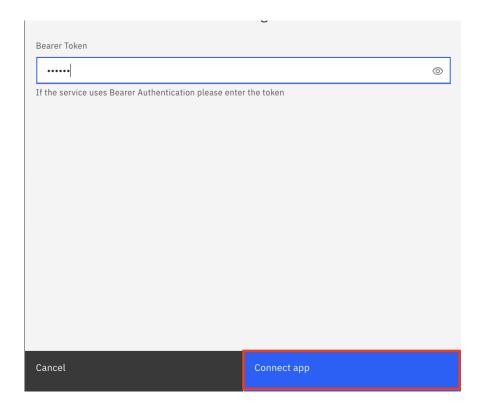
4. Click on ... to the right of the application name and then click on **Connect app:** 



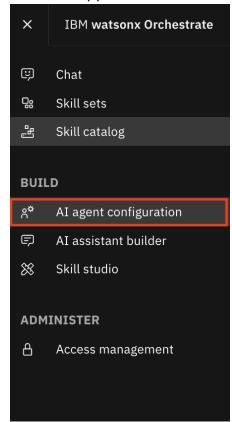
5. Select **Team credentials** and then click on **Connect app:** 



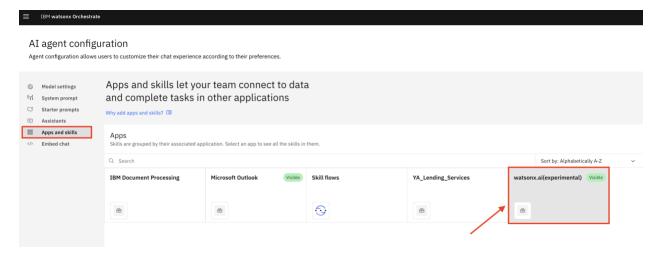
6. Enter bearer token (in this case no credentials are needed, you can just enter 6+ random characters) and click on **Connect app:** 



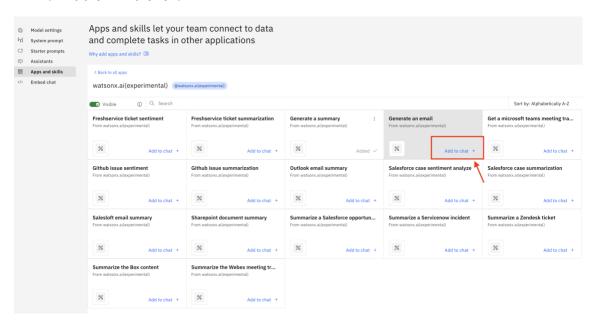
7. Once the application has been connected, go into the AI Agent configuration:



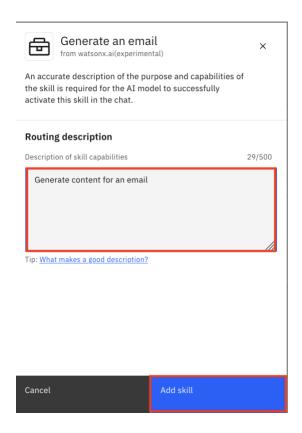
8. Under Apps and skills select the application you just connected (watsonx.ai):



9. Add skill to chat:

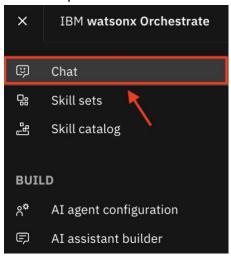


10. Provide a description about what the skill does, to help the supervisory agent route requests, and click on **Add skill:** 

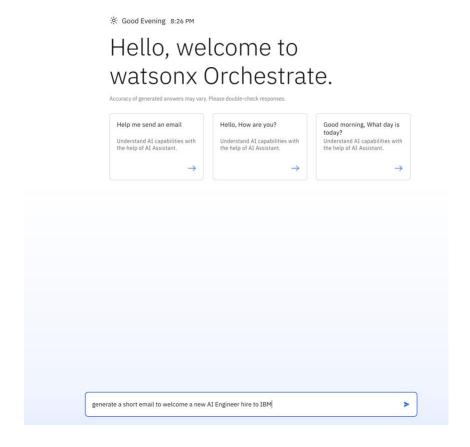


Step 2: Test the skill by generating a welcome email to a new hire

1. Open AI chat to test:



2. Type your request in the chat to test the added skill:



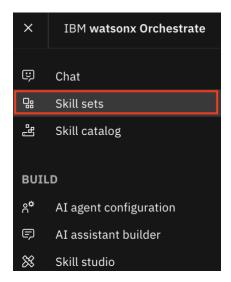
As you can see, the query was routed to the right skill.

**Note:** a screenshot will be added here asap - as soon as the product issue related to connecting to watsonx.ai has been resolved

# Step 3: Connect to Outlook application and add the send email skill to AI chat

We will follow similar steps to connect to Outlook application and add the send email skill to AI chat. Note: you will need to use credentials provided to you to connect to Outlook (instead of using your own email account).

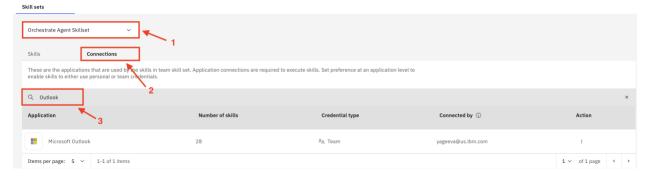
1. Navigate to **Skill sets** in the hamburger menu:



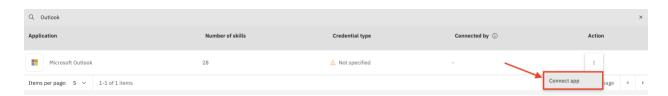
**Note:** if you are using watsonx Orchestrate on AWS, you would need to go into **Manage Team -> Skill sets** 

- 2. Search for an application with skills you want to use in AI chat, i.e. Outlook in this case
  - 1. Select Orchestrate Agent Skillset
  - 2. Select Connections panel
  - **3.** Search for application name (**Outlook**)

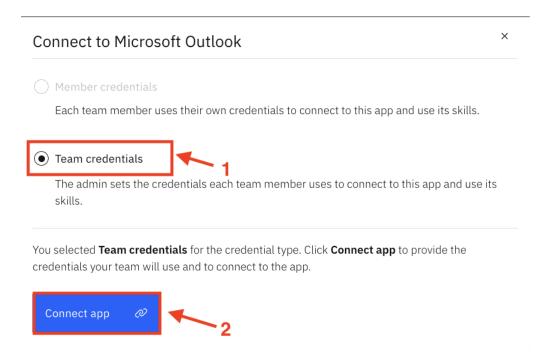
Orchestrate Agent Skillset



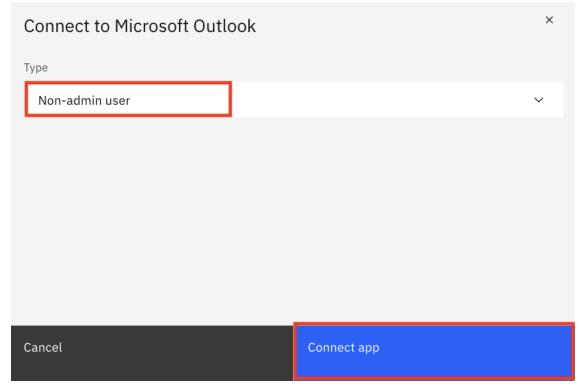
3. Click on ... to the right of the application name and then click on **Connect app:** 



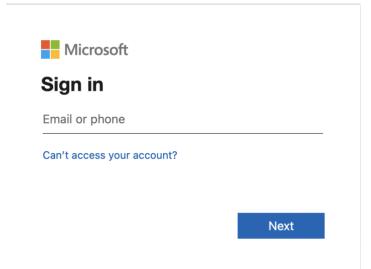
### 4. Select **Team credentials** and then click on **Connect app:**



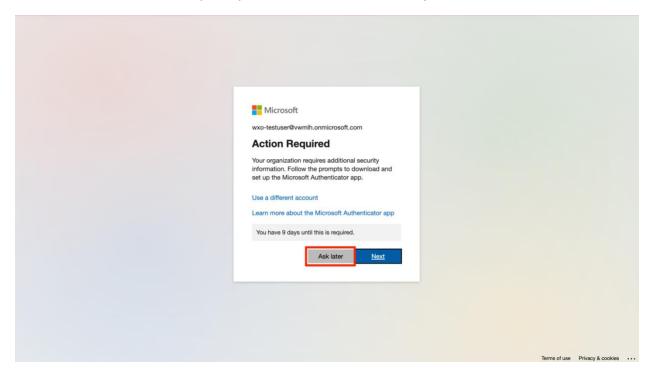
5. Select Non-admin user and then click on Connect app:



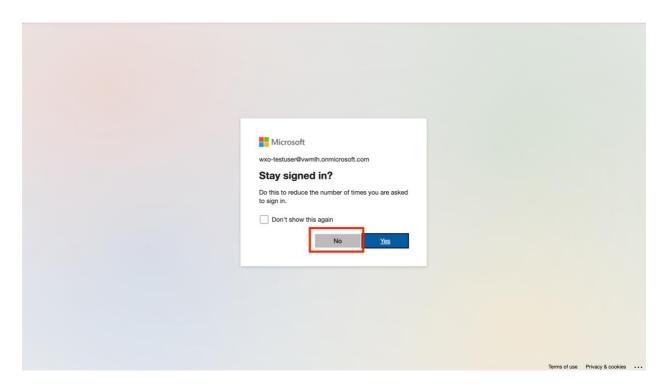
6. Use the credentials provided to you to log into Outlook (**do not** use your own Outlook email account):



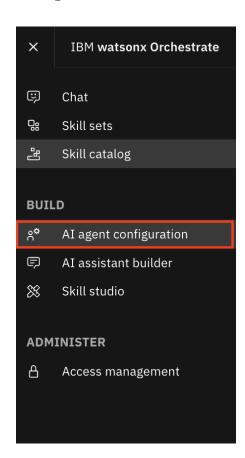
7. Select **Ask Later** if prompted for additional security information



8. Select **No** when asked to "Stay signed in?"



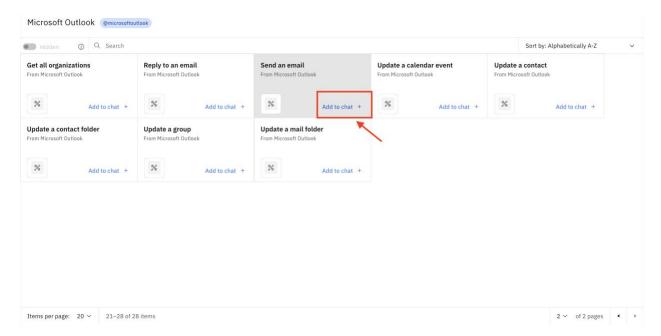
9. Once you are connected to the application, go back into the **AI agent** configuration:



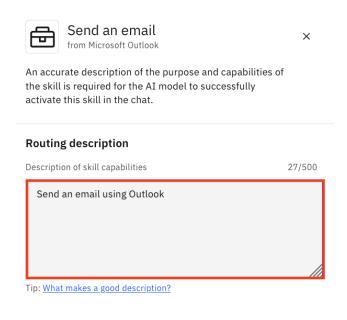
10. Under Apps and skills select the application you just connected (watsonx.ai):

#### AI agent configuration Agent configuration allows users to customize their chat experience according to their preferences Apps and skills let your team connect to data Model settings [17] System prompt and complete tasks in other applications C∄ Starter prompts Apps and skills Apps Sort by: Alphabetically A-Z IBM Document Processing Microsoft Outlook YA\_Lending\_Services watsonx.ai(experimental) 0

#### 11.Add skill to chat:



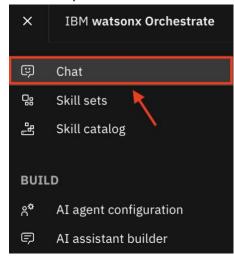
12. Provide a description about what the skill does, to help the supervisory agent route requests, and click on **Add skill:** 



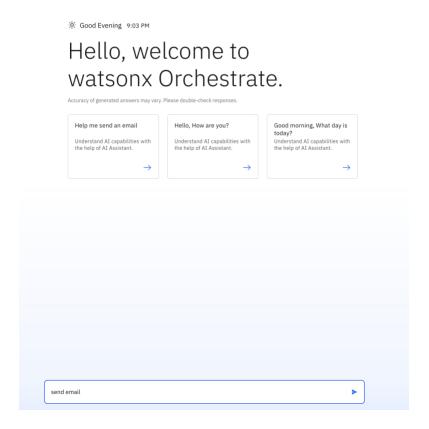


Step 4: Test the skill by sending a test email

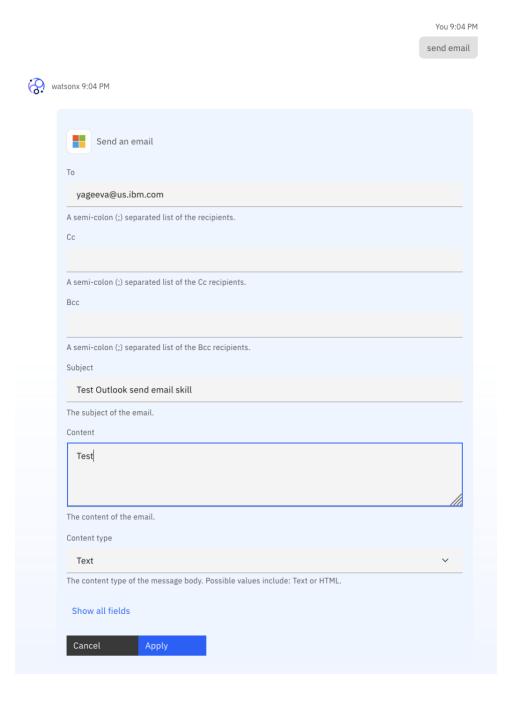
### 1. Open AI chat to test:



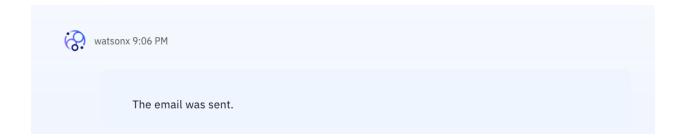
2. Type your request in the chat to test the added skill:



As you can see, the query was routed to the right skill. Fill in the details, click on **Apply:** 



Verify that you received the test email:

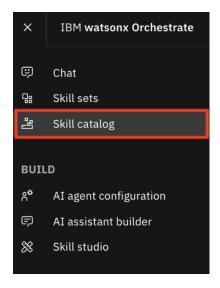


# Step 5: Create a skill flow by combining the two skills you just added

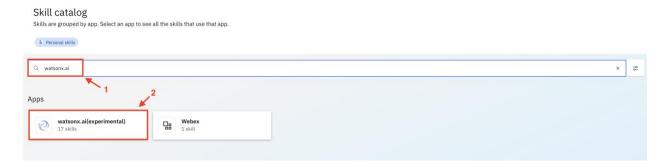
So far you have added the individual skills and tested them. You can combine two or more skills to create a skill flow. Steps to create a skill flow:

1. First, before creating the skill flow, we need to add the skills to our Personal Skills from the catalog:

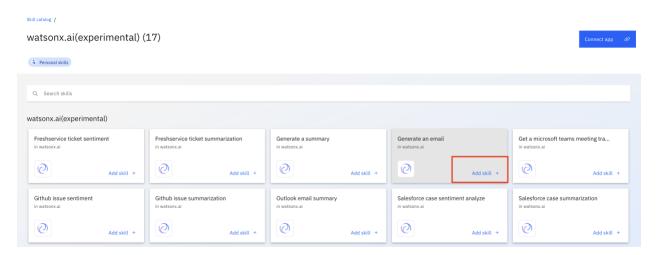
Go into Skill catalog:



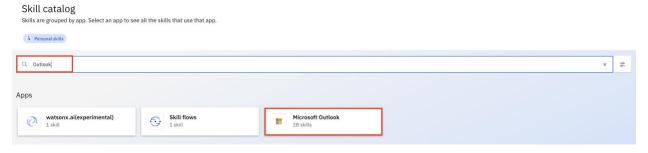
Search for watsonx.ai application in the **Skill catalog** and click on the **watsonx.ai** tile:



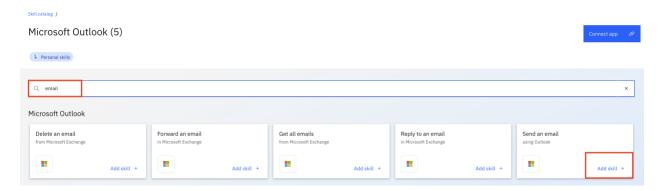
#### Add the Generate an email skill:



Go back into the **Skill catalog**, search for **Microsoft Outlook** app, and click on the tile:



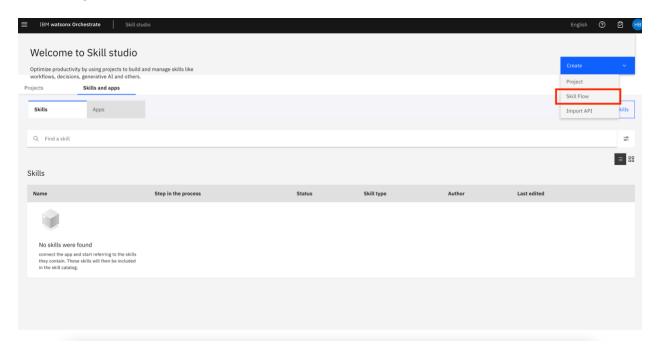
#### Search for the Send an email skill and Add skill:



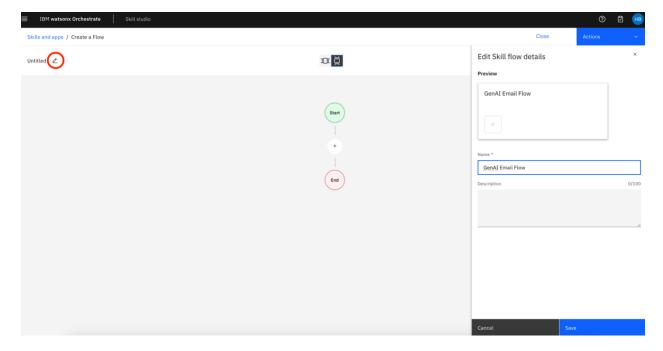
Now that the skills have been added to the Personal Skills in the catalog, we are ready to create the skill flow!

2. Navigate to **Skill studio** by clicking the hamburger menu in the upper left corner and selecting **Skill studio** in the BUILD section

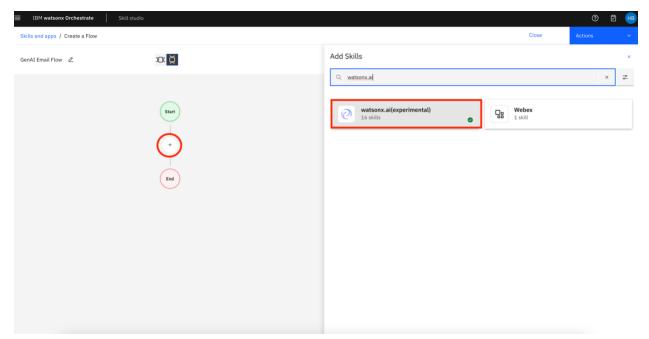
3. Create a new Skill Flow by clicking the dropdown on **Create**, then selecting **Skill Flow** 



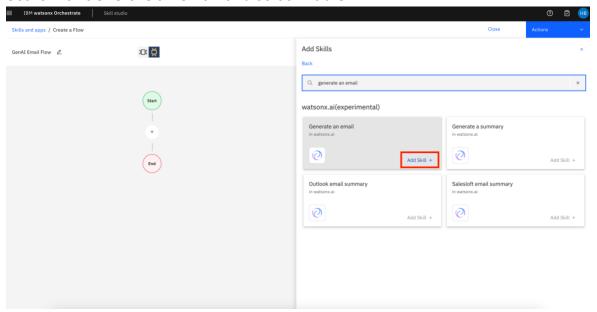
4. Click on the pen icon to edit the name of the skill and change it to **{Your\_Initials}** *GenAI Email Flow* then select **Save** 



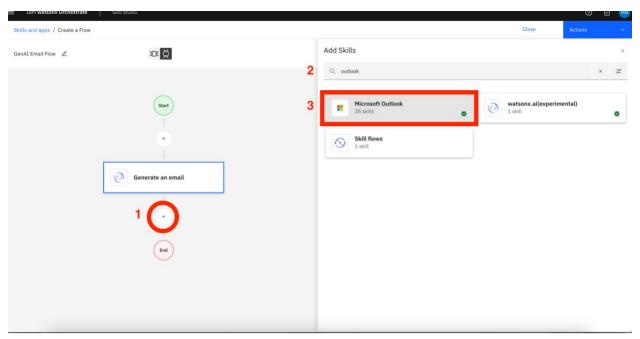
5. Click on the **plus sign** between the Start and End flow, then search for *watsonx.ai* skills and select



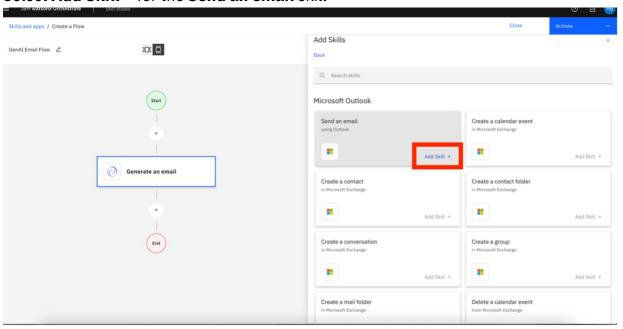
6. Search for Generate an email and select Add Skill +



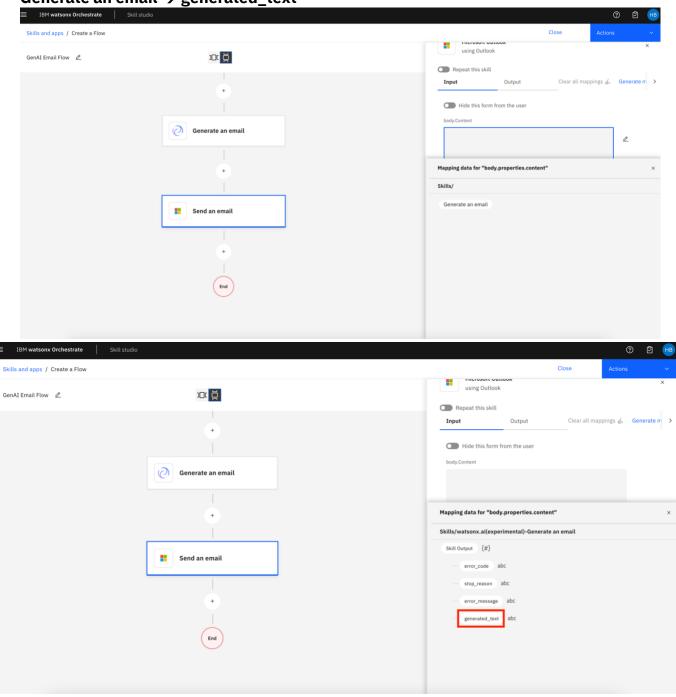
7. Next click the + button below the **Generate an email** skill to add a new skill. Search for **outlook** and select the **Microsoft Outlook** skill group.

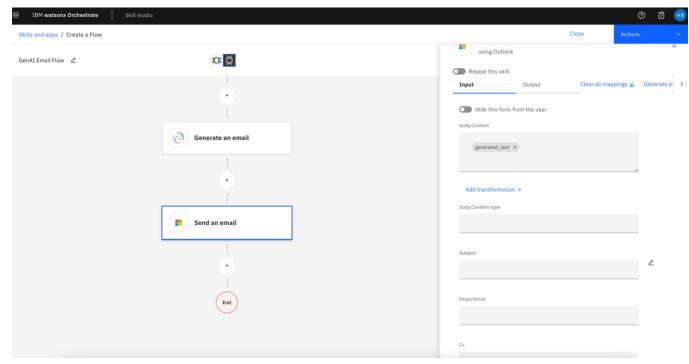


8. Select Add Skill + for the Send an email skill

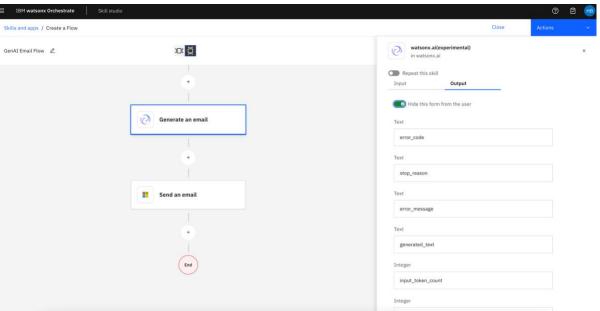


9. Click on **Send an email** skill and in the **Input** tab click the **body.Content**, select **Generate an email** → **generated\_text** 

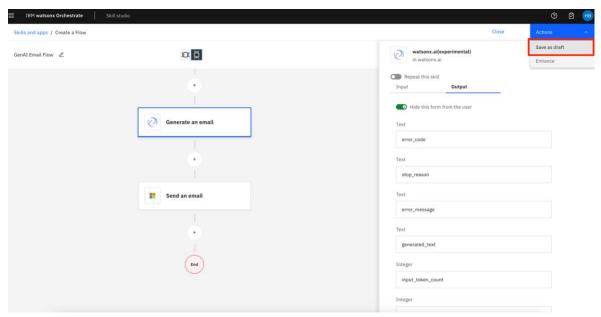




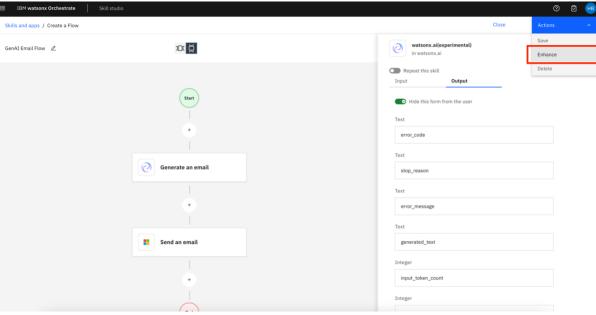
10. Now select **Generate an email skill**, in the <u>Output</u> tab turn on the toggle **Hide** this form from the user



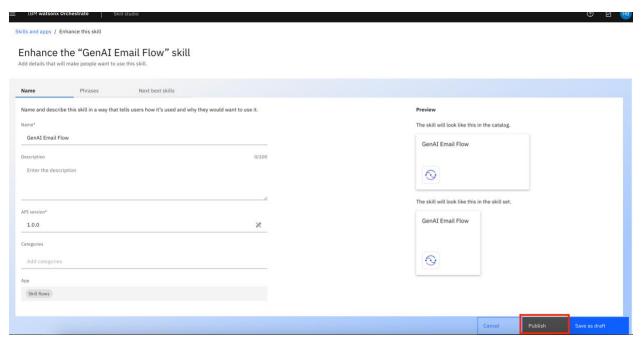
11. Now save your skill flow as a draft by clicking the **Actions** drop down and selecting **Save as Draft** 



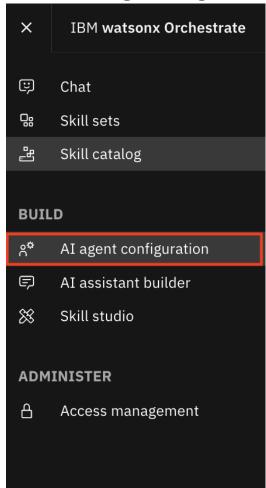
12. Next, click on the Actions dropdown again and select Enhance



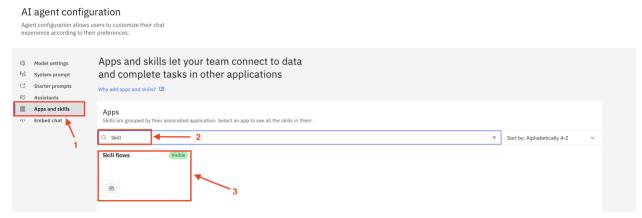
13. To publish your skill, select the **Publish** button



14. Go into the AI agent configuration:



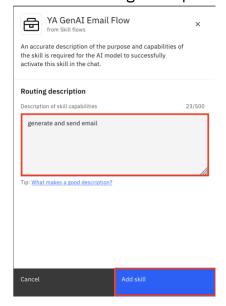
15. Under **Apps and skills** search for skill flows and click on the **Skill flows** tile:



16. Search for your skill flow by name and click on **Add to chat** to add the skill flow to the AI chat:

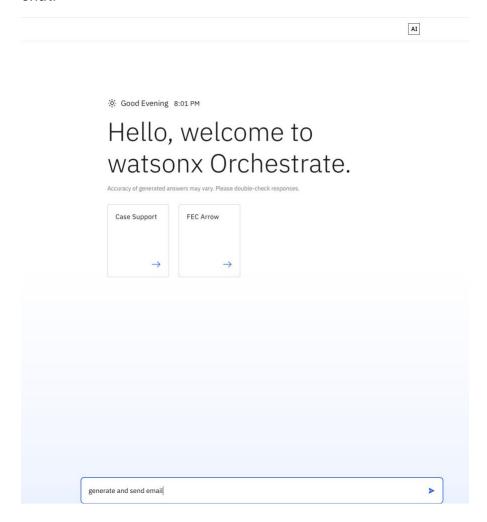
#### AI agent configuration Agent configuration allows users to customize their chat experience according to their preferences. Apps and skills let your team connect to data Model settings [7] System prompt and complete tasks in other applications C∄ Starter prompts Why add apps and skills? Assistants Apps and skills < Back to all apps </> Embed chat Skill flows @skillflows ③ Q GenAI × Sort by: Alphabetically A-Z YA GenAI Email Flow Add to chat +

17. Provide a routing description and click on Add skill:



## Step 6: Test the skill flow

Finally, you can test the skill flow that you have configured by entering your query in the Al chat:



Note: screenshot of output will be added soon.

This final step concludes the lab. In this lab, you connected watsonx.ai and Microsoft Outlook send email applications and added the generate email and send email skills to the AI chat. Finally you combined those two skills into a skill flow and added the skill flow to the AI chat.