

Leveraging ODM decisions in watsonx Orchestrate.

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Introduction

Today we'll see how IBM watsonx Orchestrate can be used to enhance call center agent productivity, increase compliance with an organization's business procedures, and reduce risk of inconsistency in the decision making process.

Using a customer service scenario, we'll see how to use watsonx Orchestrate to easily create a 'return validation' skill from an existing IBM Operational Decision Manager (ODM) application. Then, we'll see how the built-in skill flow capability can be used to sequence several skills into a single activity.

We're using a customer service example, but the same pattern can be used to leverage any existing deployed decision services across your enterprise.

Let's get started!

1- Reviewing the Operational Decision Manager decision

1.1 Introduce the customer service decision.

Narration

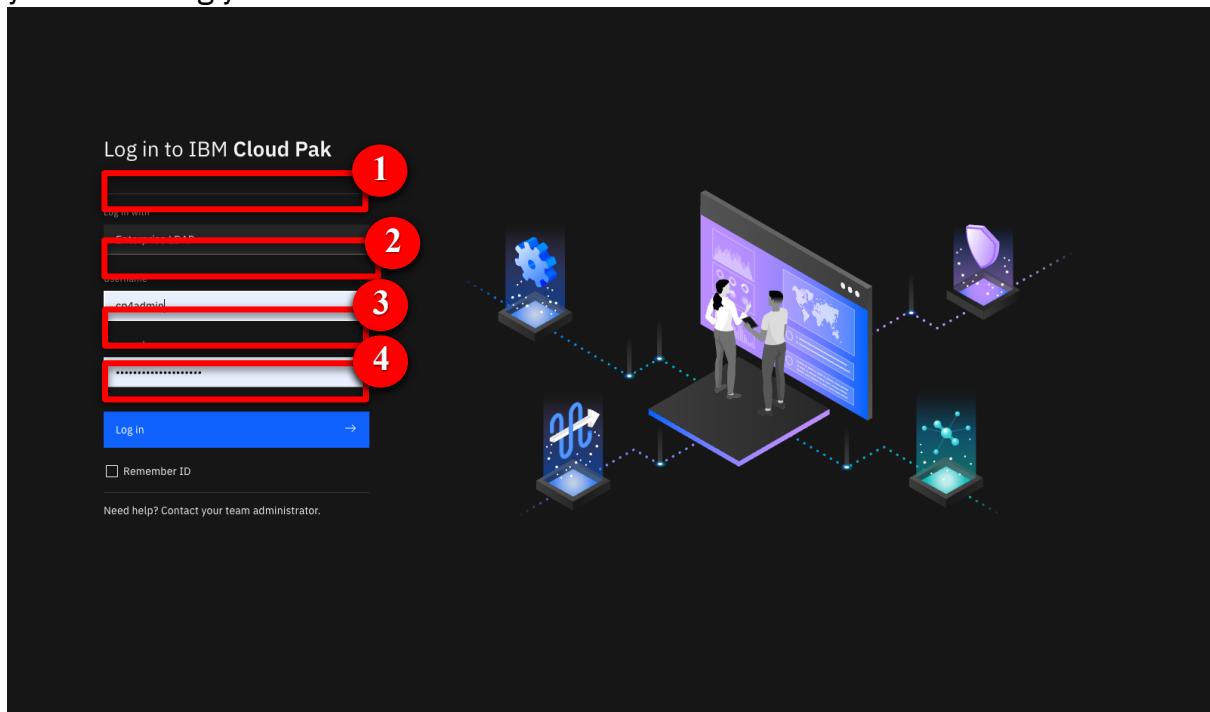
FocusCorp uses Operational Decision Manager (ODM) as a backend application to automatically validate and approve return requests from customers.

The company now wants to enable all call center agents to directly access the decision output so they can determine immediately whether a return is approved while on the phone with a customer.

Before seeing how to create such a skill in watsonx Orchestrate, let's look at the existing application in ODM.

Action 1.1.1 Show the ODM **Business Console** screen that was opened during demo preparation. Select **Enterprise LDAP** (1), enter the Username **cp4admin** (2), enter the **password** (3) you have copied in your notebook and click **Log in** (4).

Note: The Decision Center console will start from the last page you were in when you left during your last connection.



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Action 1.1.2 Click the **LIBRARY** tab.

The screenshot shows the IBM Operational Decision Manager (ODM) Decision Center interface. At the top, there is a navigation bar with tabs: HOME (selected), LIBRARY (highlighted with a red box), WORK, and ADMINISTRATION. Below the navigation bar, there are three main sections: 'Get Started' (with a green progress bar), 'Recent Activities', and 'Stream'. On the right side, there are two panels: 'Followed Rules' (empty) and 'Rules Recently Worked On' (empty). The central area displays a welcome message: 'Welcome to Operational Decision Manager' and 'Learn about the fundamentals of Decision Center'. It also includes links for 'Get Started', 'Recent Activities', 'Stream', and 'Work with your decisions'.

Narration

The return policy is managed in ODM by FocusCorp's retail business team, using a dedicated business console called Decision Center. Let's see how the return policy is implemented in ODM.

Action 1.1.3 Click the **Customer Service** decision service.

The screenshot shows the 'Decision Services' section of the ODM Decision Center. The navigation bar at the top has the 'LIBRARY' tab selected (highlighted with a red box). Below the navigation bar, there is a search bar labeled 'Filter:' and a table titled 'Decision Services'. The table has columns for 'Date' and 'Name'. A single row is visible, representing a 'Customer Service' decision service. This row is highlighted with a red box. The table also includes a header row and a footer row with a total count of 1.

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Action 1.1.4 Click the **main** branch.

The screenshot shows the IBM Decision Center interface. At the top, there are tabs for HOME, LIBRARY (which is selected), WORK, and ADMINISTRATION. Below the tabs, the navigation path is "All Decision Services > Customer Service". Under "Customer Service", there are two tabs: "Releases" and "Branches" (which is selected). A red box highlights the "main" branch under the "Branches" tab. On the right side, there is a detailed view of the "Decision Service" for the "Customer Service" branch, showing it was created by cp4admin on Oct 23, 2023, and last changed by cp4admin on the same date. There is also a "Description" section with a placeholder "Click to add a description to this decision service" and a "Build Options" section.

Action 1.1.5 Click the **Decision Artifact** tab, if you are not on that tab.

The screenshot shows the IBM Decision Center interface with the "LIBRARY" tab selected. The navigation path is "All Projects > Customer Service > main". The main content area has tabs for "Decision Artifacts" (which is selected and highlighted with a red box), "Queries", "Tests", "Simulations", "Deployments", "Snapshots", and "Model". On the right side, there is a "Branch" view for the "Customer Service" branch, showing it was created by cp4admin on Oct 23, 2023. It includes sections for "Goals" (with a placeholder "Click to add goals to this branch"), "Linked Projects", and "More".

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Action 1.1.6 Click the X to remove any decision artefact filter (if any).

The screenshot shows the IBM Watsonx Orchestrate Decision Center. The top navigation bar includes 'HOME', 'LIBRARY' (which is selected), 'WORK', and 'ADMINISTRATION'. Below the navigation is a toolbar with various icons for branching, merging, taking snapshots, timelines, and reports. The main area is titled 'Customer Service' and shows a table with columns 'Name', 'Last Changed By', and 'Last Changed On'. A message at the bottom of the table says 'There are no items to display'. On the left, there's a sidebar with 'All Projects' and 'All Types' buttons. On the right, there are sections for 'Branch' (showing a user profile for 'cp4admin' created on Oct 23, 2023) and 'Stream' (with a 'Goals' section). The 'Decision Artifacts' tab is active, and a red box highlights the 'Types' dropdown menu, which currently displays '(7)' and has an 'X' button to its right.

Action 1.1.7 Click Main customer service flow.

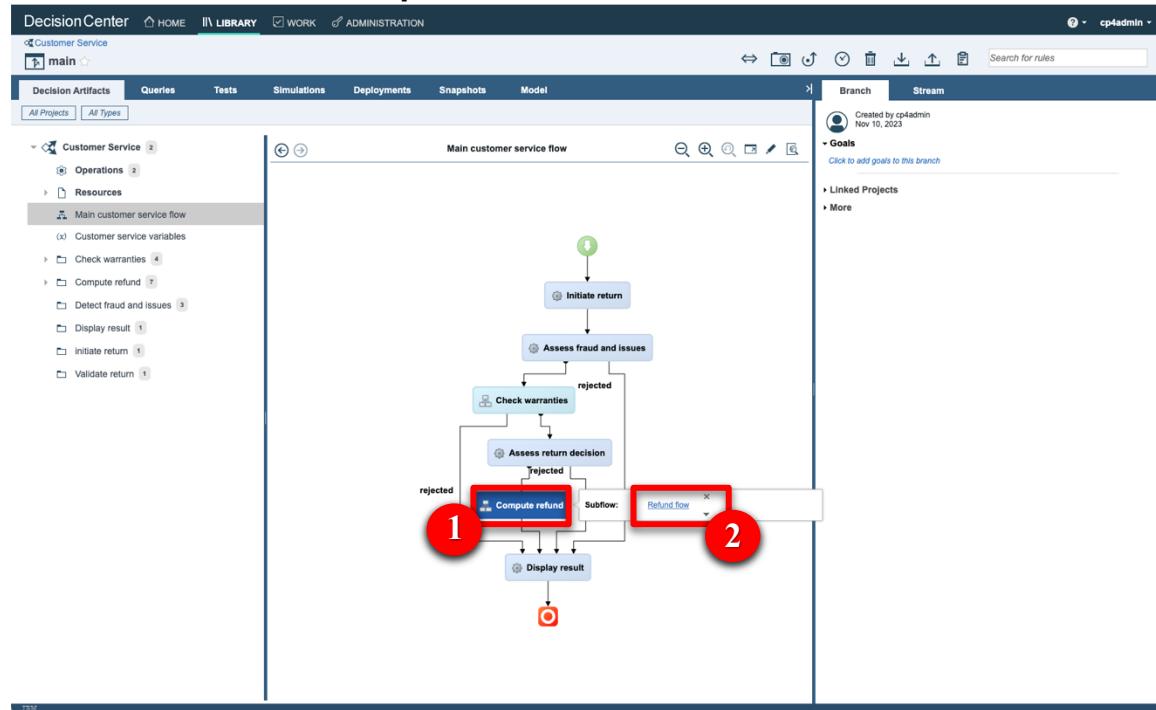
This screenshot shows the same Decision Center interface as the previous one, but now the 'Customer service variables' entry in the list has been selected. A red box highlights this entry, and a delete icon is visible next to it. The rest of the interface remains the same, with the 'Customer Service' table showing two entries: '(x) Customer service variables' and 'Main customer service flow', both last changed on Oct 24, 2023 by 'rtsAdmin'.

1.2 Provide an overview of the decision service.

Narration: The return validation policy is composed of rule artifacts including ruleflows, decision tables and business rules.

The main ruleflow is the backbone of the decision service. It synchronizes a variety of rules that cover fraud detection, warranty validation, return policy and refund conditions.

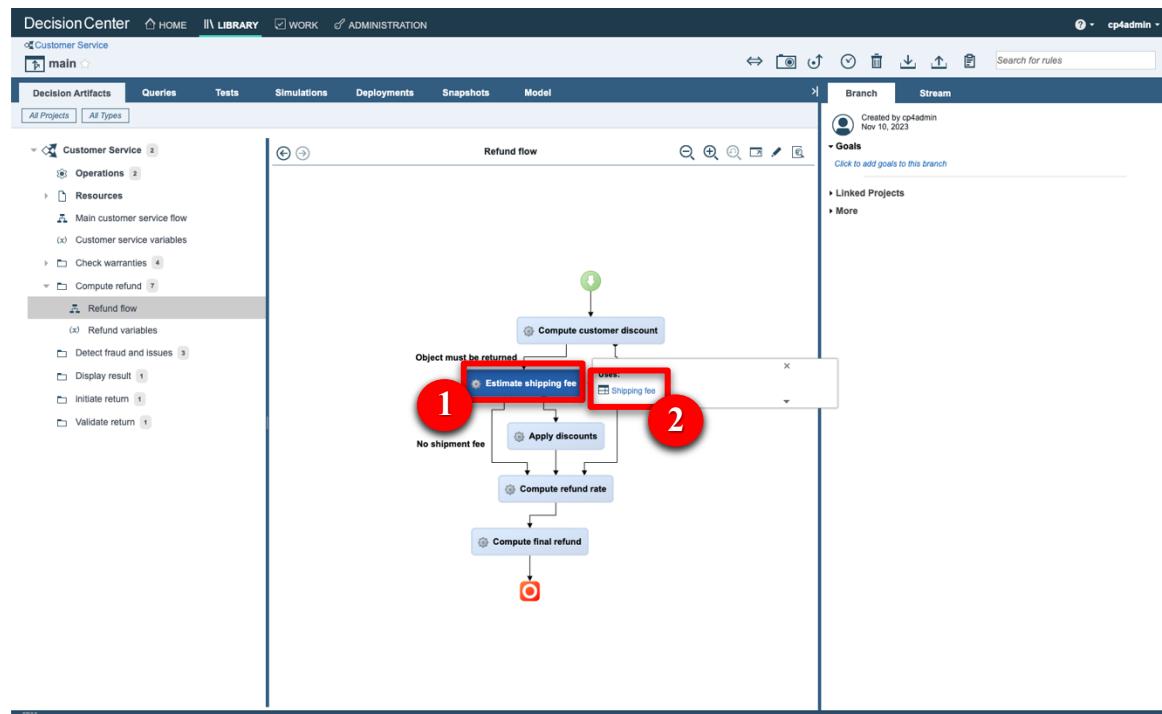
Action 1.2.1 Click the **Compute refund** box (1) and then the **Refund flow** link (2)



Narration: Let's look at one of the decision artifacts. The 'Shipping fee' decision table defines the fixed return fee depending on the location of the customer and the type of item being returned.

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Action 1.2.2 Click the **Estimate shipping fee** box (1) and then the **Shipping fee** link (2) to open the decision table.



Narration: Each row of the table corresponds to a specific business rule that can also be seen in natural language. In this rule, the return fee for grocery items in the United States is \$15. A message is also added to the response to document the decision.

Action 1.2.3 Hover your cursor over the header of row 4 to display the ‘grocery’ business rule.

The screenshot shows the Decision Center interface with the 'LIBRARY' tab selected. On the left, the navigation tree shows 'Customer Service' > 'Compute refund' > 'Shipping fee'. The main canvas displays a decision table titled 'Compute refund > Shipping fee'. A red arrow points to the header of row 4. The table has columns: Country, Purchase type, Fee, and Comment. Row 4 contains: USA, Grocery, 15, -. The table has 23 rows in total.

Country	Purchase type	Fee	Comment
1 USA	Beauty, Books, Clothin...	8.5	-
2 USA	Jewelry, Pets	80	-
3 USA	Electronics, Garden...	75	-
4 USA	Grocery	15	-
5 USA	Furniture	250	-
6 Canada	Beauty, Books, Clothin...	35	-
7 Canada	Electronics, Garden	90	-
8 Canada	Jewelry	110	-
9 Canada	Otherwise	-1	-
10 Other		-1	-
11		-	-
12		-	-
13		-	-
14		-	-
15		-	-
16		-	-
17		-	-
18		-	-
19		-	-
20		-	-
21		-	-
22		-	-
23		-	-

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The screenshot shows the IBM Decision Center interface. On the left, there's a navigation tree under 'Customer Service' with 'Operations' expanded, showing 'Main customer service flow'. In the center, a rule named 'Compute refund > Shipping fee' is displayed. The 'Preconditions' section contains a table with rows for USA purchases. The 'If' condition specifies that if the purchase type is USA, the shipping fee is set to 15. The 'Then' part adds a comment to the customer service decision. The right side of the screen shows a 'Branch' view with a user profile and a 'Goals' section.

Action 1.2.4 Click Main customer service flow.

This screenshot is similar to the previous one but with a red box highlighting the 'Main customer service flow' in the navigation tree. The rest of the interface, including the rule details and the right-hand branch view, remains the same.

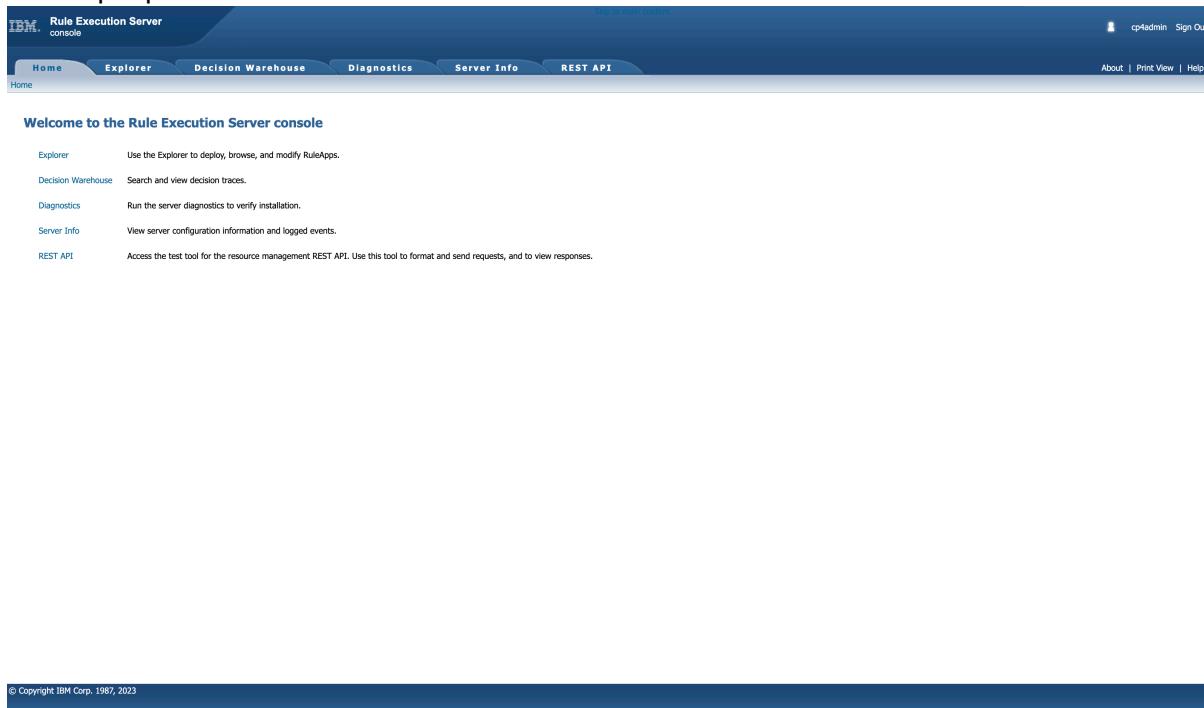
Narration: This decision service is deployed in a production environment and is invoked by FocusCorp's enterprise applications. Let's look at the deployment environment.

1.3 Introduce production Rule Execution Server.

Narration: The ODM Rule Execution Server is a console to monitor rule applications deployed on a given server. From this console, the rule administrator can test a rule application, trace its usage, run diagnostics, and access execution traces when required.

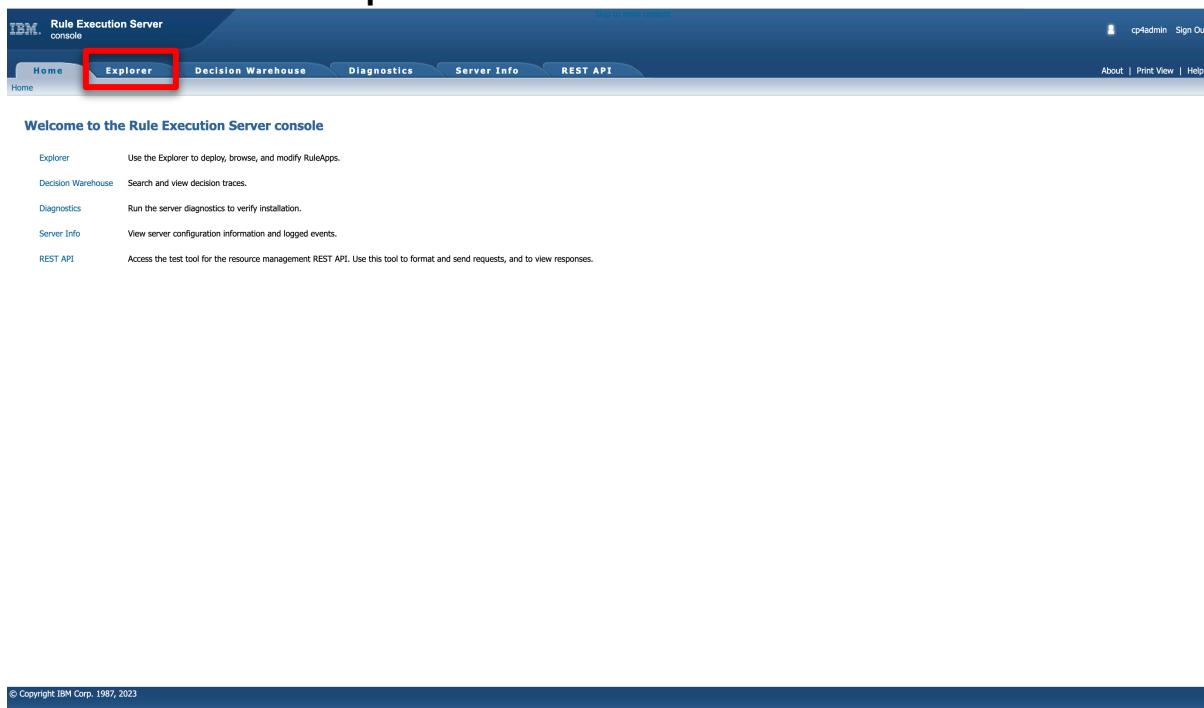
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Action 1.3.1 Show the **ODM Rule Execution Server** screen that was opened during demo preparation.



The screenshot shows the IBM Rule Execution Server console interface. At the top, there is a navigation bar with tabs: Home, Explorer, Decision Warehouse, Diagnostics, Server Info, and REST API. The 'Home' tab is currently selected. On the left, there is a sidebar titled 'Welcome to the Rule Execution Server console' with several links: Explorer, Decision Warehouse, Diagnostics, Server Info, and REST API. Each link has a brief description. At the bottom of the page, there is a copyright notice: '© Copyright IBM Corp. 1987, 2023'.

Action 1.3.2 Click the **Explorer** tab.



The screenshot shows the same IBM Rule Execution Server console interface as the previous one, but with a red box highlighting the 'Explorer' tab in the top navigation bar. The rest of the interface is identical to the first screenshot.

Narration: Two RuleApps are deployed in this production environment. The ‘Customer Service’ RuleApp manages the return policy we just looked at in the Decision Center.

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Action 1.3.3 Click FocusCorp_CustomerService RuleApp.

The screenshot shows the 'RuleApps View' page. The left sidebar has a 'Navigator' section with 'RuleApps (2)', 'Resources (3)', 'Libraries (6)', and 'Service Information'. The main area shows a table with two entries:

Select	Name	Version	Creation Date	Number of rulesets	Actions
<input type="checkbox"/>	FocusCorp_CustomerService	1.0	Oct 24, 2023, 11:57:06 AM GMT+2	1	Download Archive with All Rulesets
<input type="checkbox"/>	FocusCorp_OrehequesService	1.0	Oct 24, 2023, 11:55:50 AM GMT+2	1	Download Archive with All Rulesets

A red box highlights the first row, 'FocusCorp_CustomerService'.

Action 1.3.4 Click FocusCorp_Customer_Service Ruleset.

The screenshot shows the 'RuleApp View' for '/FocusCorp_CustomerService/1.0'. The left sidebar has a 'Navigator' section with 'RuleApps (2)', 'Resources (3)', 'Libraries (6)', and 'Service Information'. The main area shows a table with one entry:

Select	Name	Version	Ruleset Path	Creation Date	Actions
<input type="checkbox"/>	FocusCorp_Customer_Service	1.0	/FocusCorp_CustomerService/1.0/FocusCorp_Customer_Service/1.0	Oct 24, 2023, 11:57:06 AM GMT+2	Download Remove

A red box highlights the first row, 'FocusCorp_Customer_Service'.

Narration: The customer service application has one ruleset with two input parameters - the customer and the purchase to be returned. Both the decision service and the ruleset it contains are versioned. At execution time, a user can decide to use a specific version, or the latest deployed version of the RuleApp.

Action 1.3.5 Point out and explain the **FocusCorp_Customer_Service** ruleset: The output parameter (1), the return decision (2) and the versioning(3).

The screenshot shows the 'Ruleset View' for the 'FocusCorp_Customer_Service/1.0' ruleset. The main header displays the ruleset name and version (1.0). The left sidebar shows navigation links for RuleApps, Resources, Libraries, and Service Information. The central content area displays the 'Ruleset Parameters' table:

Direction Name	Kind	XOM Type
purchase	native	wxJavaModel.Purchase
customer	native	wxJavaModel.Customer
decision	native	wxJavaModel.Decision

Below the table are several buttons: 'Show Managed URIs (1)', 'Show Properties (15)', 'Show Decision Warehouse Options (tracing currently disabled)', 'Show HTDS Options', and 'Show Archive Content'. A red circle labeled '1' points to the 'purchase' row, '2' points to the 'decision' row, and '3' points to the '1.0' version number.

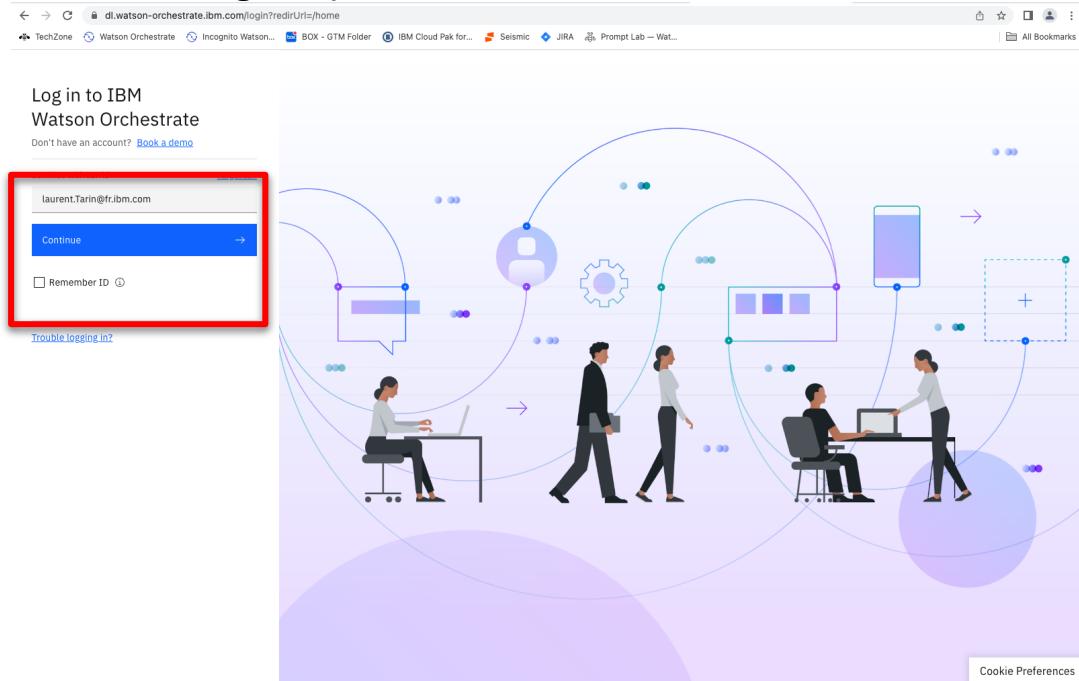
Narration: Let's now see how to leverage these deployed decisions using watsonx Orchestrate to make these return decisions visible to call center agents.

2- Creating of a new skill in watsonx Orchestrate

2.1 Connect the discovery service to the ODM Rule Execution Server

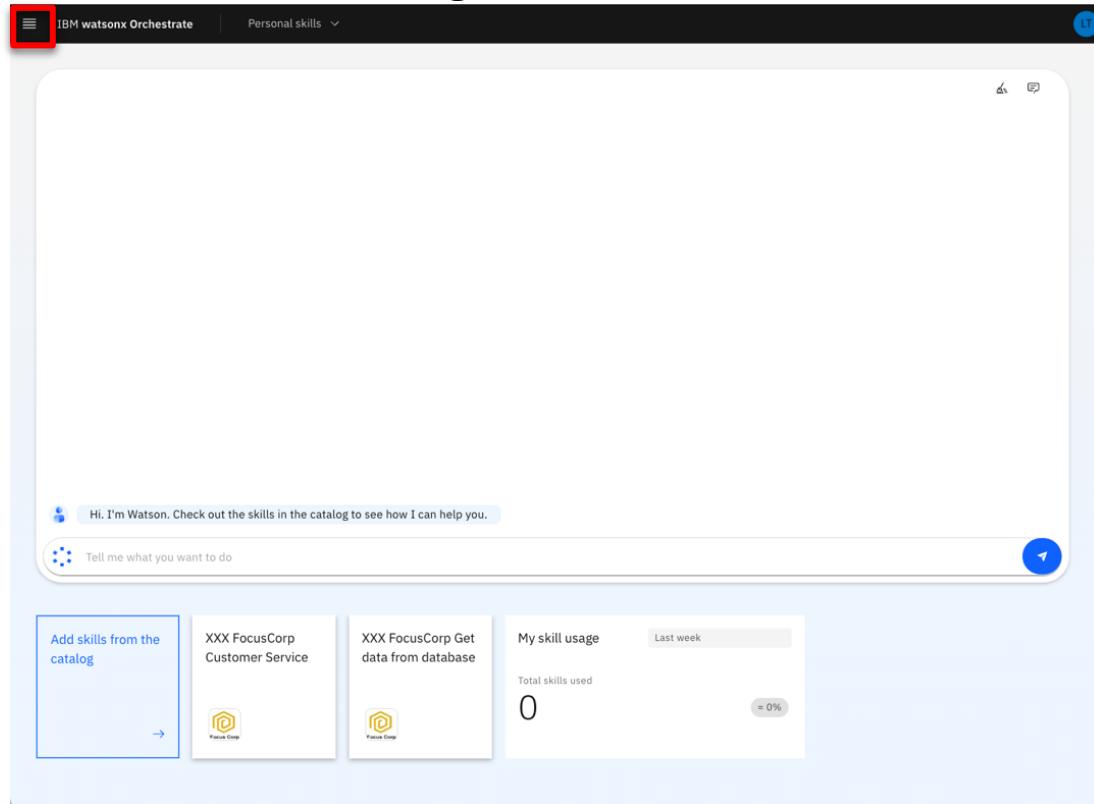
Narration: Let's now log in to watsonx Orchestrate with the 'Builder' profile. This profile enables us to create, enrich and publish skills.

Action 2.1.1 Log in to your watsonx Orchestrate instance.

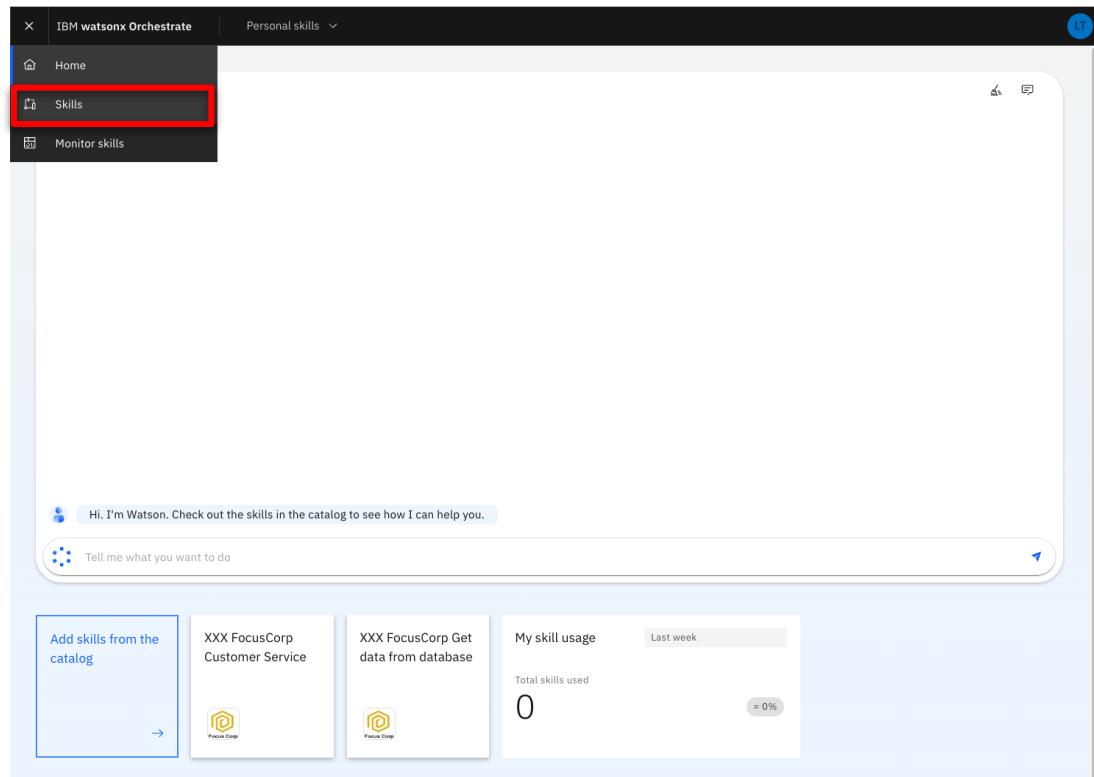


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Action 2.1.2 Click the hamburger icon.



Action 2.1.3 Click Skills.



Narration: watsonx Orchestrate offers a wide variety of skills that can be added for a single individual (personal skill) or the whole team. Let's create a new personal skill.

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Action 2.1.4 Click Add skills.

The screenshot shows the 'Skills and apps' section of the IBM Watson Orchestrate interface. At the top right, there is a blue button labeled 'Add skills' with a red box around it. Below the button is a search bar with the placeholder 'Find a skill'. The main area displays a table of skills with columns: Name, Description, Step in the process, Status, Skill type, and an ellipsis column. The skills listed include various automation and composite services, such as 'CT Execute MAH-Recommend-produ...', 'Execute retention-offer', and 'Sales company status'. Each skill row has a small dropdown arrow icon to its left.

Narration: There are various ways to create a skill in watsonx Orchestrate. One of them is to use a discovery service to create new skills from IBM Cloud Pak for Business Automation that are deployed on SaaS or on premises, or from RPA SaaS. The automation service we want to leverage are deployed on a containerized version of ODM on premises.

Action 2.1.5 Click the IBM Cloud Pak for Business Automation – On premises tile.

The screenshot shows the 'Add skills' dialog box. At the top, there are two tabs: 'Choose the source' (selected) and 'Select the skills'. Below the tabs, there is a section titled 'Choose the source' with the sub-instruction 'To discover new skills, connect to an app or import an OpenAPI file or a skill package.' Underneath this, there are two buttons: 'From apps' (selected) and 'From files'. A list of sources is displayed, including 'IBM Cloud Pak for Business Automation - SaaS' (with sub-options 'Business Automation Workflow' and 'Operational Decision Manager'), 'IBM Cloud Pak for Business Automation - On premises' (with sub-options 'Automation Decision Services', 'Business Automation Workflow', and 'Operational Decision Manager'), and 'IBM RPA'. The 'IBM Cloud Pak for Business Automation - On premises' tile is highlighted with a red box. At the bottom right of the dialog box is a 'Cancel' button.

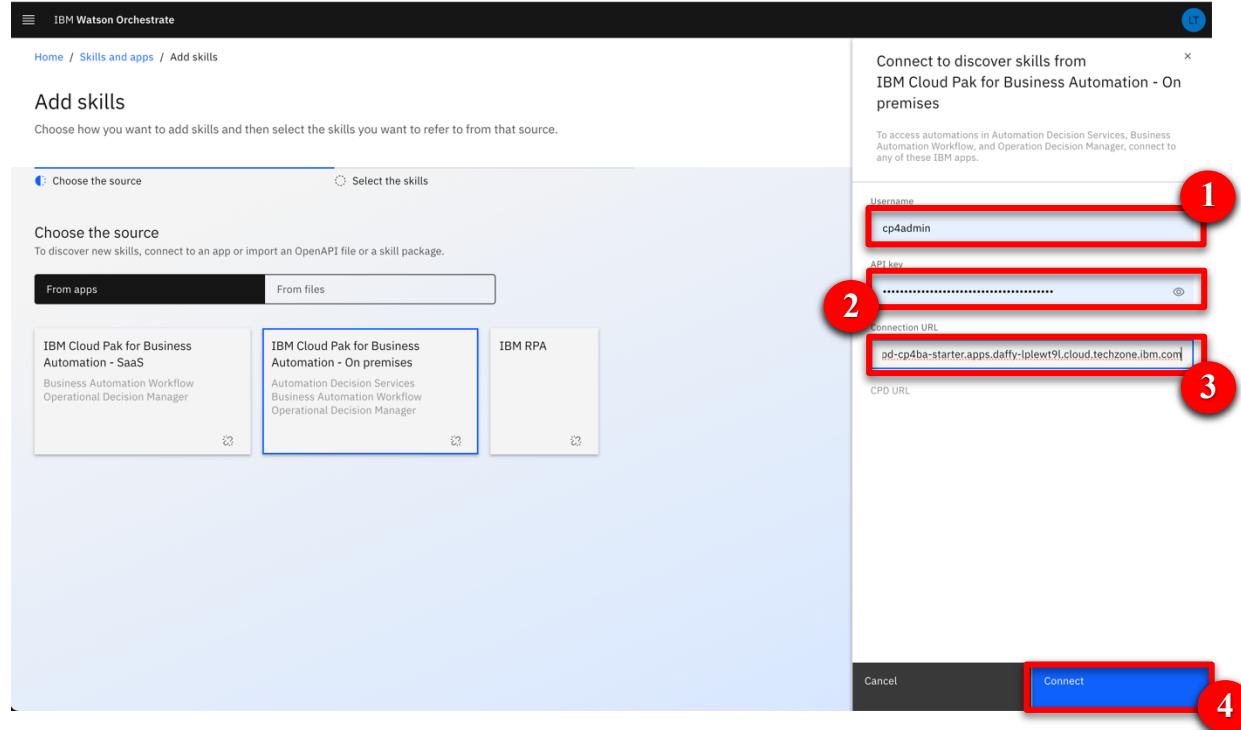
Note: If you are using a SaaS environment, click the **IBM Cloud Pak for Business**

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Automation – SaaS tile and use the basic authentication credentials provided by your SaaS admin.

Narration: To access the automation environment, an API key has been generated by the Cloud Pak for Business Automation administrator. With this API key and the cluster URL, we can set up the discovery service and let it access all the automation services deployed in this environment.

Action 2.1.6 Enter your **Username** (1), **API key** (2) and **Connection URL** (3) you stored in your notebook in the preparation phase. Click **Connect** (4).

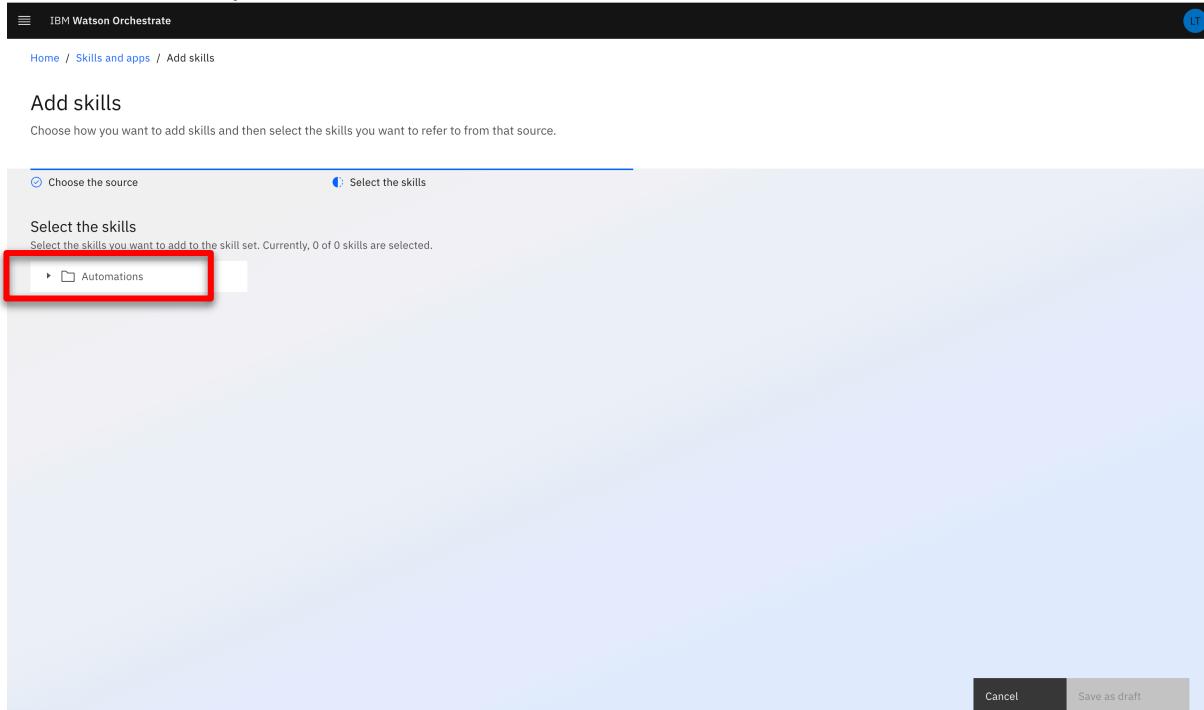


2.2 Create the customer service skill from the ODM Ruleapp

Narration: The discovery service lets us see all the deployed business automation that we can leverage to create a new skill.

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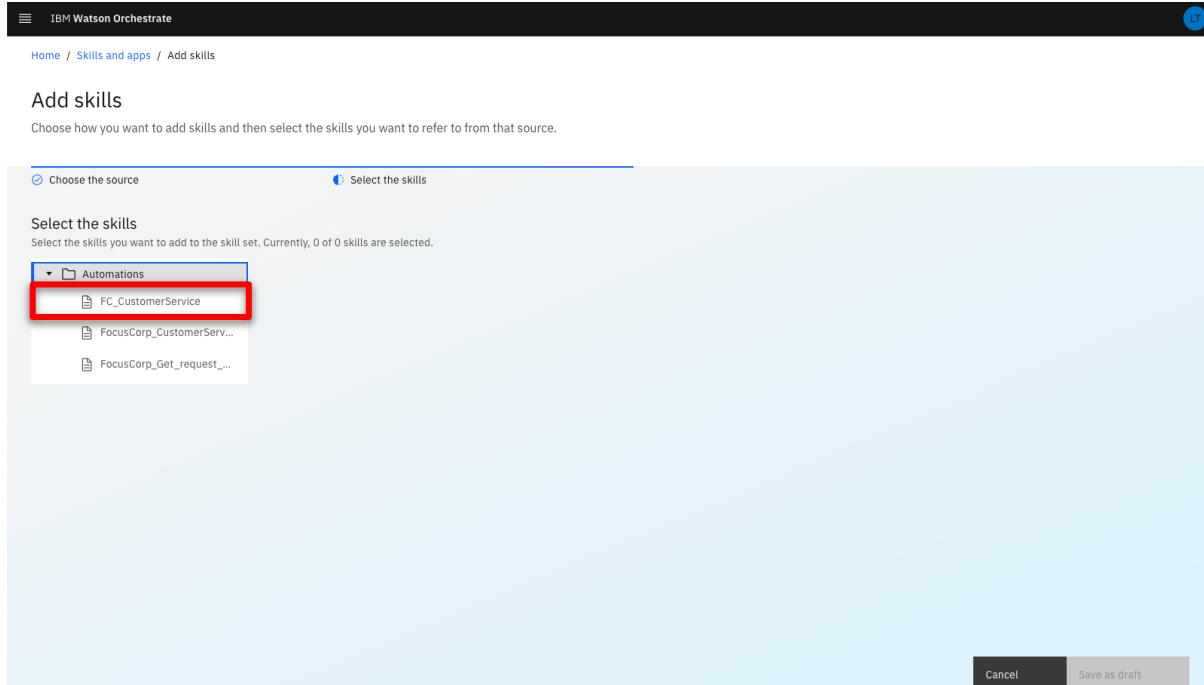
Action 2.2.1 Expend the Automations folder.



The screenshot shows the 'Add skills' page in IBM Watson Orchestrate. At the top, there are two tabs: 'Choose the source' (selected) and 'Select the skills'. Below these, a section titled 'Select the skills' contains the message 'Select the skills you want to add to the skill set. Currently, 0 of 0 skills are selected.' A tree view shows a single folder named 'Automations', which is highlighted with a red box. At the bottom right of the screen are 'Cancel' and 'Save as draft' buttons.

Narration: 'FC_CustomerService' is one of the deployed ODM applications we can leverage. The new skill we are about to create will execute the business rules deployed on the rule execution server that we saw earlier.

Action 2.2.2 Select FC_CustomerService.



This screenshot continues from the previous one, showing the 'Select the skills' interface. The 'Automations' folder is expanded, revealing three skills: 'FC_CustomerService' (highlighted with a red box), 'FocusCorp_CustomerServ...', and 'FocusCorp_Get_request...'. The 'Select the skills' tab is selected at the top. At the bottom right are 'Cancel' and 'Save as draft' buttons.

Narration: Now we'll create a new skill in watsonx Orchestrate. Let's search for our recently added skill.

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Action 2.2.3 Select the ‘Invokes the execution..’ skill (1) and click Save as draft (2).

The screenshot shows the 'Add skills' interface in IBM Watson Orchestrate. On the left, there's a sidebar with 'Choose the source' (radio button selected) and 'Select the skills' (radio button selected). Below this, under 'Select the skills', it says 'Select the skills you want to add to the skill set. Currently, 1 of 1 skills are selected.' A list of skills is shown in a table with columns: Skill, Description, and Status. One skill is selected: 'Invokes the execution of the d...', which is described as 'Executes the decision service ...'. The status for this skill is 'Ready to add'. At the bottom right of the interface, there are 'Cancel' and 'Save as draft' buttons, with 'Save as draft' being highlighted by a red circle labeled '2'.

Narration: Next, we'll configure the skill to define how it asks for the input and displays the output. We'll also train the natural language processing (NLP) engine on the phrases that can be used to invoke the skill.

Action 2.2.4 Search for ‘FC’ to access the recently imported skill.

The screenshot shows the 'Skills and apps' interface in IBM Watson Orchestrate. At the top, there's a search bar with 'Fc' typed into it, which is highlighted by a red box. To the right of the search bar, a green notification bar appears stating '1 skill successfully imported SUCCESS 11:35:57'. Below the search bar, there's a table titled 'Skills' with columns: Name, Description, Step in the process, Status, and Skill type. Several skills are listed, including 'Watson translator', 'CT Execute MAH-Recommend-produ...', 'Execute retention-offer', 'Composite with decision', 'HelloWorldLCT', 'ODM CP4BA OnPrem Invokes the e...', 'Vacation approval', 'alice skill flow from cluster', and 'Draft - Vacation Evaluation'. The status for the skill 'ODM CP4BA OnPrem Invokes the e...' is shown as 'Ready to use'.

Narration: The discovery service has created a version of the skill that is not yet published. As we can see, it is now ready to be published in the skills catalog.

Action 2.2.5 Expand the **Invokes the execution of the decision service operation XXX_FC_CustomerService** skill (XXX being your initials used during the demo prep).

Note: The **Step in the process** for this skill should read '**Just 1 step away to be ready**'. The **Status** for this skill should read '**Ready to publish**'.

Name	Description	Step in the process	Status	Skill type
Invokes the execution of the d...	Executes the decision service ...	Just 1 step away to be ready	Ready to publish	Imported

Action 2.2.6 Make sure you are on the right skill checking you are the author of the skill.

Name	Description	Step in the process	Status	Skill type
Invokes the execution of the d...	Executes the decision service ...	Just 1 step away to be ready	Ready to publish	Imported

Description: Executes the decision service operation XXX_FC_CustomerService with the path /FC_CustomerService/1.0/XXX_FC_CustomerService/1.0.

Added on: Fri Oct 27 2023 11:52:24 GMT+0200 (Central European Summer Time)

Updated on: Fri Oct 27 2023 11:52:24 GMT+0200 (Central European Summer Time)

Author: laurent.tarin@fr.ibm.com

Narration: We can now define the way users will interact with our skill. This is required before publishing the skill.

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Action 2.2.7 Click the corresponding ellipsis icon.

The screenshot shows the 'Skills and apps' section of the IBM Watson Orchestrate interface. A specific skill card is highlighted, showing its details: Name (Invokes the execution of the d...), Description (Executes the decision service ...), Step in the process (Just 1 step away to be ready), Status (Ready to publish), and Skill type (Imported). An ellipsis icon (three vertical dots) is located at the end of the row, which is highlighted with a red box.

Action 2.2.8 Click Enhance this skill.

The screenshot shows the same 'Skills and apps' section. The same skill card is selected. A context menu is open next to the ellipsis icon, with the 'Enhance this skill' option highlighted by a red box. Other options in the menu include 'Delete this skill' and 'Export this skill'.

2.3 Publish the customer service skill to your personal skills

Narration: The first thing we'll customize is the title of the skill. On the right we see how the skill will be displayed to users. As this demo environment is shared across various users, we'll add initials to easily find the skill in the catalog.

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Action 2.3.1 Enter an easy-to-find skill name (e.g., ‘New XXX FocusCorp customer service.’ – XXX being your own initials)

The screenshot shows the 'Enhance this skill' interface. The 'Name' tab is selected, displaying a text input field containing 'New XXX FocusCorp customer service.' This input field is highlighted with a red rectangle. Below it, there's a 'Description' section with a text area containing 'Executes the decision service operation XXX_FC_CustomerService with the path /FC_CustomerService/1.0/XXX_FC_CustomerService/1.0.' To the right, there are two preview sections: 'Preview' (showing how the skill will look in the catalog) and 'The skill will look like this in the skill set.' At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

Narration: We can customize how the inputs will be displayed and edit a specific label for each entry. We can also specify what attributes will be required to invoke the skill.

Action 2.3.2 Click the Input tab.

The screenshot shows the 'Enhance this skill' interface with the 'Input' tab selected, indicated by a red rectangle around the tab title. Under the 'Request body' section, there are two entries: one for '___DecisionID___' with a 'Required' checkbox unchecked, and another for 'customer.name' with a 'Required' checkbox also unchecked. Both entries have 'Edit response' dropdown menus. At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

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Action 2.3.3 Scroll down to the **customer.name** field.

The screenshot shows the 'Input' tab of the skill enhancement interface. It lists three input parameters: 'customer.name', 'customer.country', and 'customer.yearsAsCustomer'. The 'customer.name' field is highlighted with a red arrow. Each field has a label input field below it. The 'customer.name' label field contains 'Provide the Label for input parameter customer.name'. The 'customer.country' label field contains 'Provide the Label for input parameter customer.country'. The 'customer.yearsAsCustomer' label field contains 'Provide the Label for input parameter customer.yearsAsCustomer'. There are 'Edit response' buttons for each field. At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

Action 2.3.4 Enter 'Customer name' in the **customer.name** field.

The screenshot shows the 'Input' tab of the skill enhancement interface. The 'customer.name' field now contains the value 'Customer name', which is highlighted with a red box. The other fields ('customer.country' and 'customer.yearsAsCustomer') remain unmodified. The 'Edit response' buttons are visible below each field. At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

Narration: The same procedure is applied for the remaining fields. The output parameters are also customized in the same way.

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Action 2.3.5 Click the **Output** tab.

The screenshot shows the 'Enhance the "New XXX FocusCorp customer service." skill' page. The 'Output' tab is highlighted with a red box. Below it, there are three sections: 'purchase.warrantyType' (containing 'Warranty' and 'Basic'), 'purchase.returnReason' (containing 'Return reason' and a list of reasons like 'Arrived_damaged', 'Arrived_late', etc.), and 'purchase.condition' (containing 'Item condition' and a list of conditions like 'Opened', 'Used', etc.). Each section has an 'Edit response' dropdown. At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

Narration: In this scenario, we only need to specify the column headers of the table that contains the decision fields returned by ODM.

Action 2.3.6 Click **Edit response**.

The screenshot shows the 'Enhance the "New XXX FocusCorp customer service." skill' page with the 'Output' tab selected. The 'Edit response' dropdown is expanded, revealing a table with columns: title, title, title, title, title, title, title. The first row contains field names: 'DecisionID', 'decision.returnStatus', 'decision.refundAmount', 'decision.comments', 'decision.fee', 'decision.action', 'decision.requestDate'. The second row contains placeholder values: 'Edit response'. At the bottom right are 'Cancel', 'Publish', and 'Save as draft' buttons.

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Action 2.3.7 Type 'Return decision' in the **decision.returnStatus** header field.

The screenshot shows the 'Enhance this skill' interface in IBM Watson Orchestrate. The 'Output' tab is selected. In the 'Edit response' section, under the 'Table' tab, there is a row with three columns. The first column has a dropdown menu with 'Add header'. The second column has a text input field containing 'Return decision', which is highlighted with a red box. The third column has a dropdown menu with 'decision.returnStatus'. At the bottom right of the interface are 'Cancel', 'Publish', and 'Save as draft' buttons.

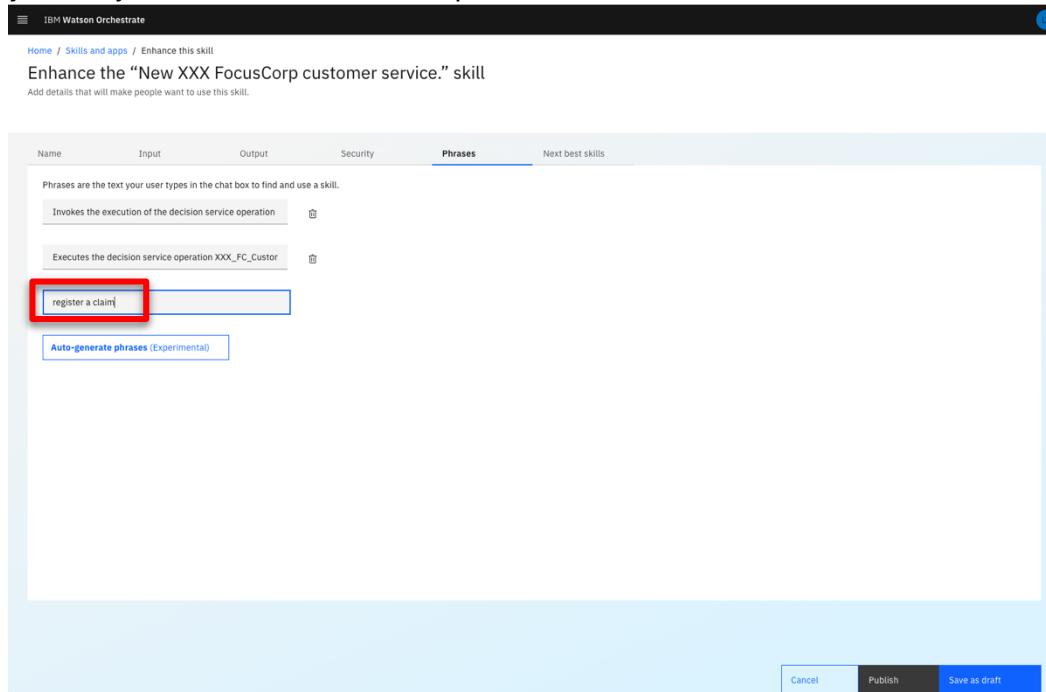
Narration: The same procedure is applied for the remaining output fields. We have already prepared a fully configured skill that we'll see in a couple of minutes.

Action 2.3.8 Click the **Phrases** tab.

The screenshot shows the 'Enhance this skill' interface in IBM Watson Orchestrate. The 'Phrases' tab is selected in the top navigation bar. In the 'Edit response' section, under the 'Table' tab, there is a row with three columns. The first column has a dropdown menu with 'Shipment fee'. The second column has a dropdown menu with 'Next action'. The third column has a dropdown menu with 'Decision date'. At the bottom right of the interface are 'Cancel', 'Publish', and 'Save as draft' buttons.

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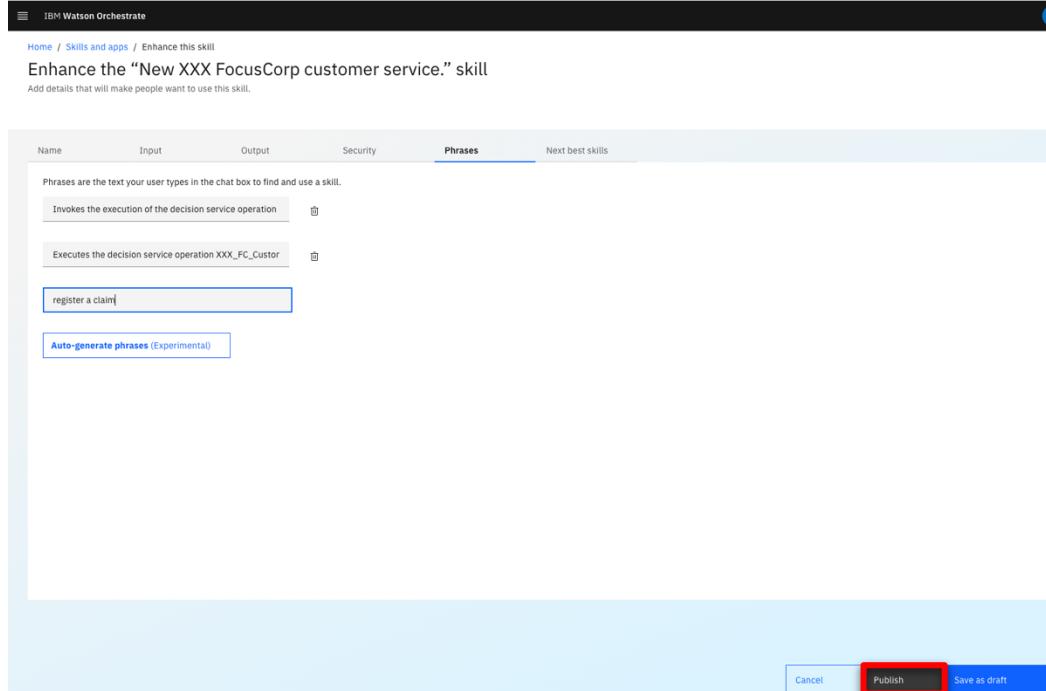
Action 2.3.9 Type ‘register a claim’ as a new phrase. Press the enter/return key on your keyboard to save the new phrase.



The screenshot shows the 'Phrases' tab of the IBM Watson Orchestrate interface. A red box highlights the input field containing the phrase 'register a claim'. Below the input field is a button labeled 'Auto-generate phrases (Experimental)'. At the bottom right of the screen are three buttons: 'Cancel', 'Publish' (which is highlighted with a red box), and 'Save as draft'.

Narration: Our skill is now published in the watsonx Orchestrate catalog. Users are now able to add it to their personal skill sets.

Action 2.3.10 Click **Publish**.



This screenshot is identical to the one above, showing the 'Phrases' tab with the 'register a claim' phrase entered. The 'Publish' button at the bottom right is highlighted with a red box, indicating it is the next step to be taken.

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The screenshot shows the 'Skills and apps' section of the IBM Watson Orchestrate interface. A green notification bar at the top right indicates a successful publication: 'Published successful Published skill! 12:11:59'. Below the notification, there is a search bar labeled 'Find a skill' and a table titled 'Skills'.

Name	Description	Step in the process	Status	Skill type
Watson translator	Translates text from one langu...	Just 1 step away to be ready	Ready to publish	Imported
CT Execute MAH-Recommend-produ...	CT Execute MAH-Recommend-produ...	Ready to use	Published	Automation
Execute retention-offer	Execute retention-offer	Ready to use	Published	Automation

2.4 Add the customer service skill to your personal skills

Narration: We can now add this new skill into our personal catalog.

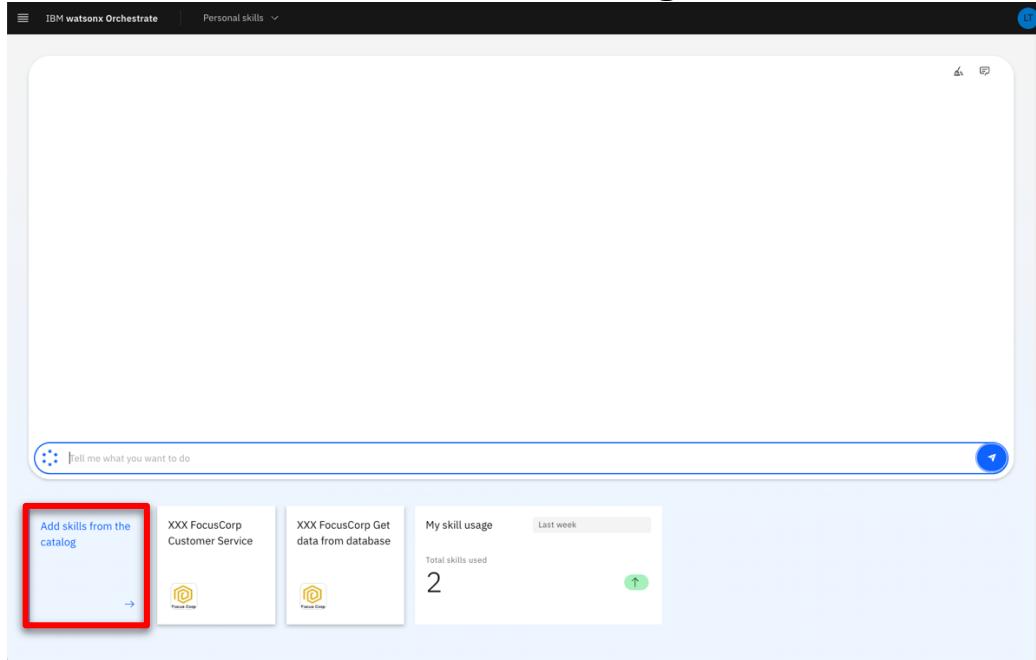
Action 2.4.1 Click Home

The screenshot shows the 'Skills and apps' section of the IBM Watson Orchestrate interface. The 'Home' link in the breadcrumb navigation is highlighted with a red box. A green notification bar at the top right indicates a successful publication: 'Published successful Published skill! 12:11:59'. Below the notification, there is a search bar labeled 'Find a skill' and a table titled 'Skills'.

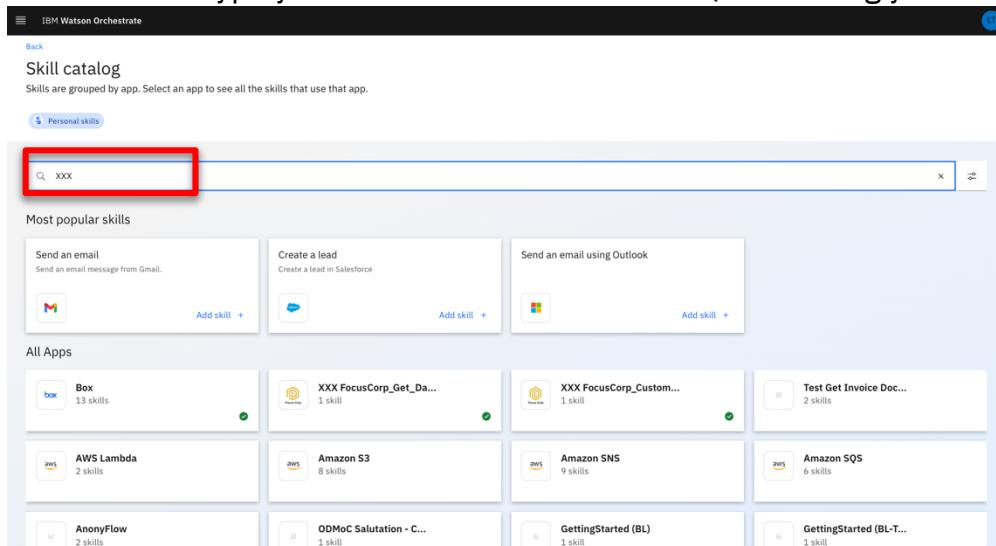
Name	Description	Step in the process	Status	Skill type
Watson translator	Translates text from one langu...	Just 1 step away to be ready	Ready to publish	Imported
CT Execute MAH-Recommend-produ...	CT Execute MAH-Recommend-produ...	Ready to use	Published	Automation
Execute retention-offer	Execute retention-offer	Ready to use	Published	Automation

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Action 2.4.2 Click Add skills from the catalog.



Action 2.4.3 Type your 'XXX' in the search field ('XXX' being your own initials).



ODM and watsonx Orchestrate Platinum demonstration script

Action 2.4.4 Click your ‘**XXX_FC_CustomerService_API**’ (‘XXX’ being your own initials).

The screenshot shows the 'Skill catalog' page in IBM Watson Orchestrate. At the top, there's a search bar with 'XXX' typed into it. Below the search bar, there's a section titled 'Apps' containing three items: 'XXX FocusCorp_Get_Data_Fro...', 'XXX FocusCorp_Customer_Ser...', and 'XXX_FC_CustomerService API'. The third item, 'XXX_FC_CustomerService API', is highlighted with a red box. A 'Personal skills' button is visible at the top left.

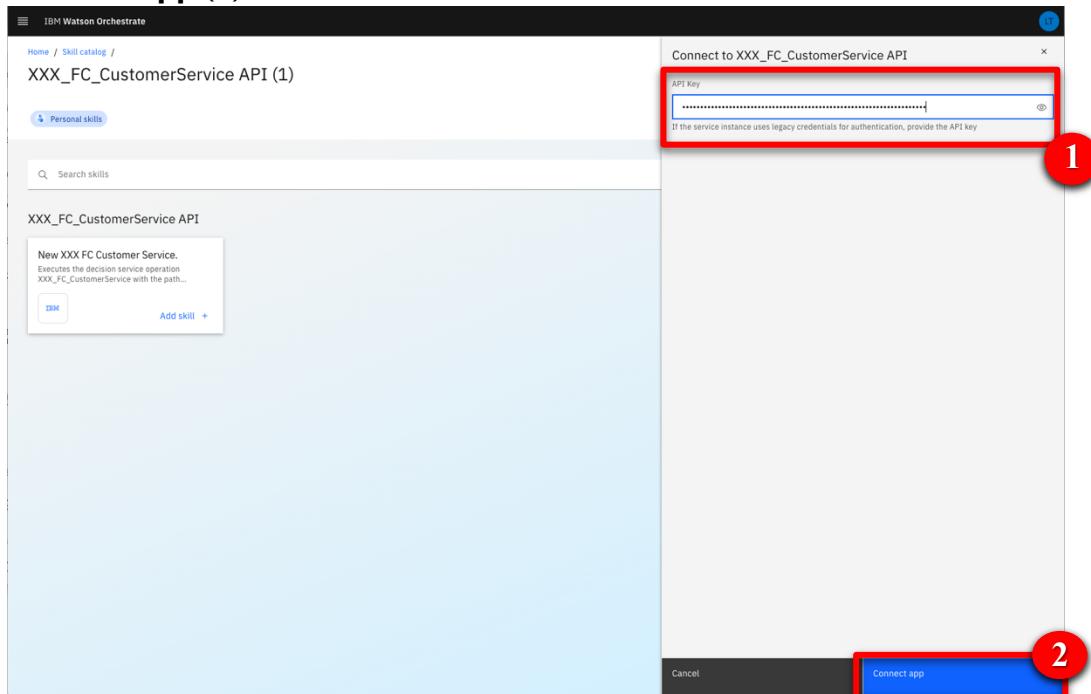
Narration: Next, we'll connect the skill to the Rule Execution Server. We'll use the ZEN API key that was provided by our ODM administrator to connect to the deployed rule service.

Action 2.4.5 Click **Connect app**.

The screenshot shows the details page for the 'XXX_FC_CustomerService API (1)' skill. At the top, there's a breadcrumb navigation: 'Home / Skill catalog / XXX_FC_CustomerService API (1)'. Below the breadcrumb, there's a 'Personal skills' button. On the right side of the page, there's a large blue button labeled 'Connect app' with a red box around it. The main content area displays a summary of the skill: 'New XXX FC Customer Service. Executes the decision service operation XXX_FC_CustomerService with the path...'. There are also 'IBM' and 'Add skill +' buttons.

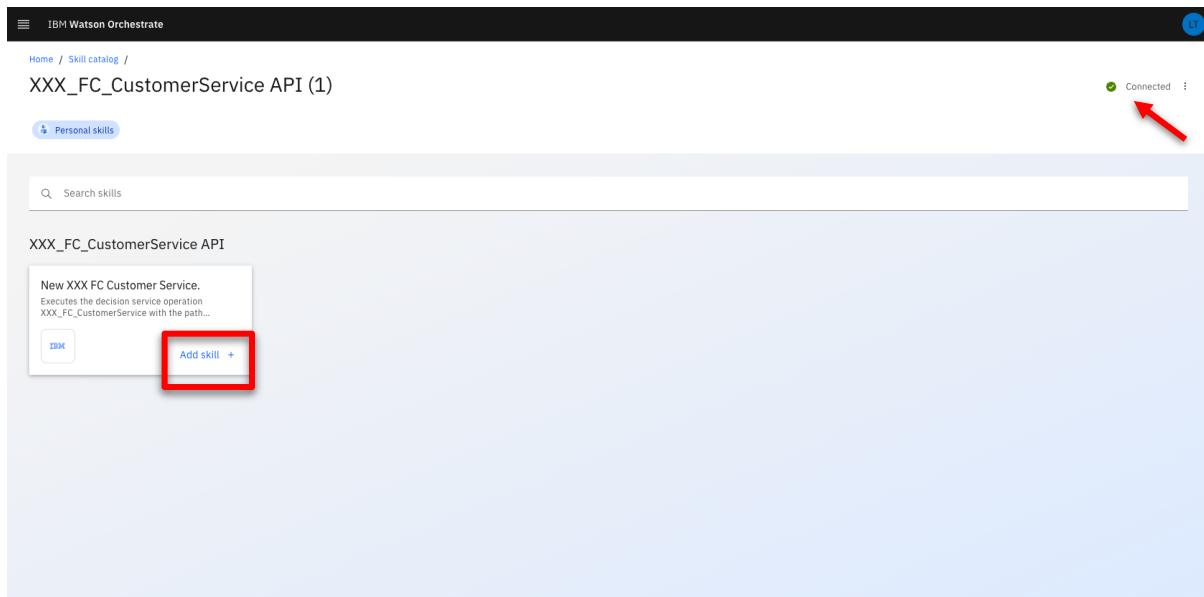
ODM and watsonx Orchestrate Platinum demonstration script

Action 2.4.6 Enter the **ZEN API KEY** (1) you copied in your notebook - click **Connect app** (2).



Narration: The skill is connected, and we can now add it into our personal catalog.

Action 2.4.7 Click **Add skill +**.



ODM and watsonx Orchestrate Platinum demonstration script

Action 2.4.8 Check that your skill is added.

The screenshot shows the IBM Watson Orchestrate interface. In the top navigation bar, it says "IBM Watson Orchestrate". Below that, the path is "Home / Skill catalog / XXX_FC_CustomerService API (1)". On the right side, there's a green circular icon with a checkmark and the word "Connected". In the center, under "Personal skills", there's a search bar with "Search skills" placeholder text. Below the search bar, a list item is shown: "XXX_FC_CustomerService API" with a small IBM logo icon. To the right of the skill name, the word "Added" is followed by a blue checkmark icon, with a red arrow pointing to it from the left.

Action 2.4.9 Click Home.

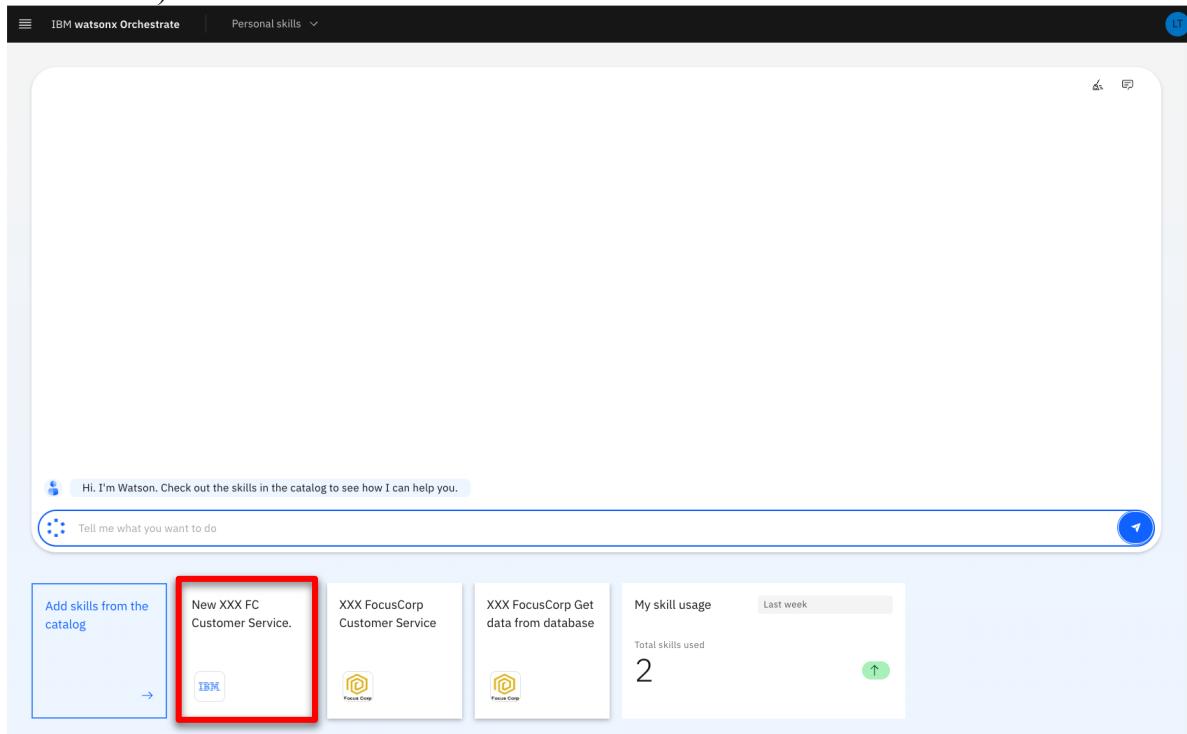
This screenshot is similar to the previous one, showing the IBM Watson Orchestrate interface. The top navigation bar includes "IBM Watson Orchestrate", the path "Home / Skill catalog / XXX_FC_CustomerService API (1)", and the "Connected" status. The "Personal skills" section is visible with the same skill listing. However, in this version, a red box highlights the "Home" link in the top navigation bar, indicating the user's action.

2.5 Show the customer service skill

Narration: The new skill is now listed in our personal skills list. In one click, we can invoke it.

ODM and watsonx Orchestrate Platinum demonstration script

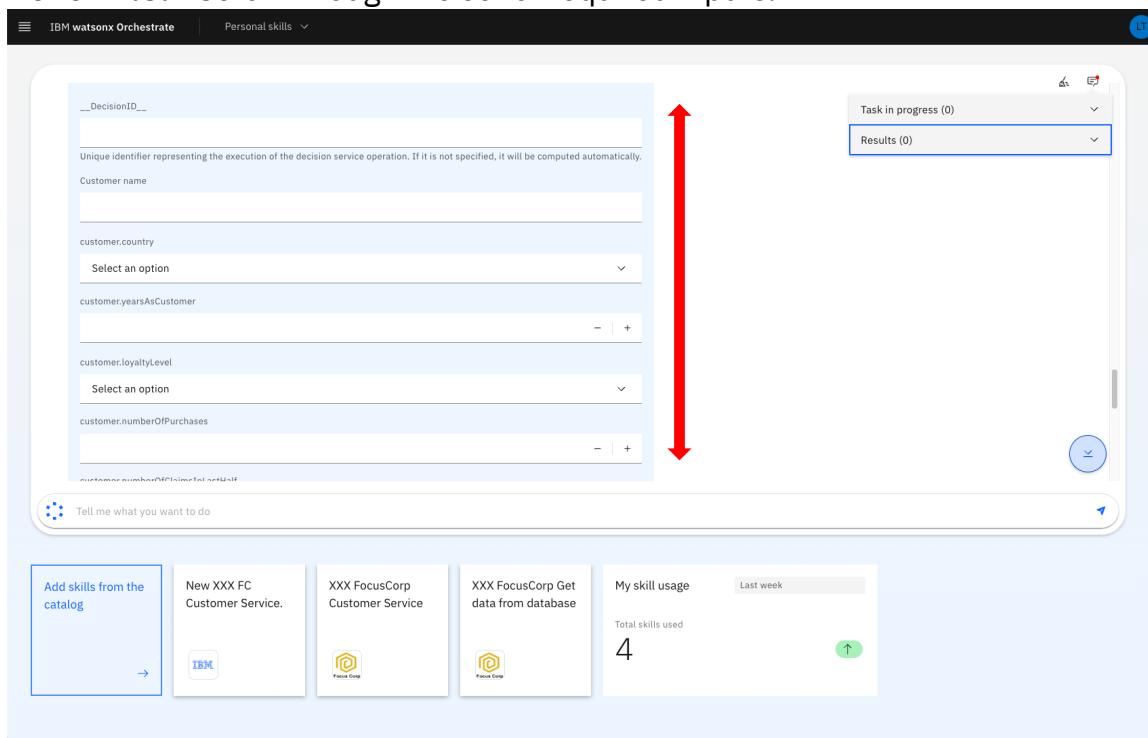
Action 2.5.1 Click the **New XXX FocusCorp customer service** tile ('XXX' being your own initials).



Narration:

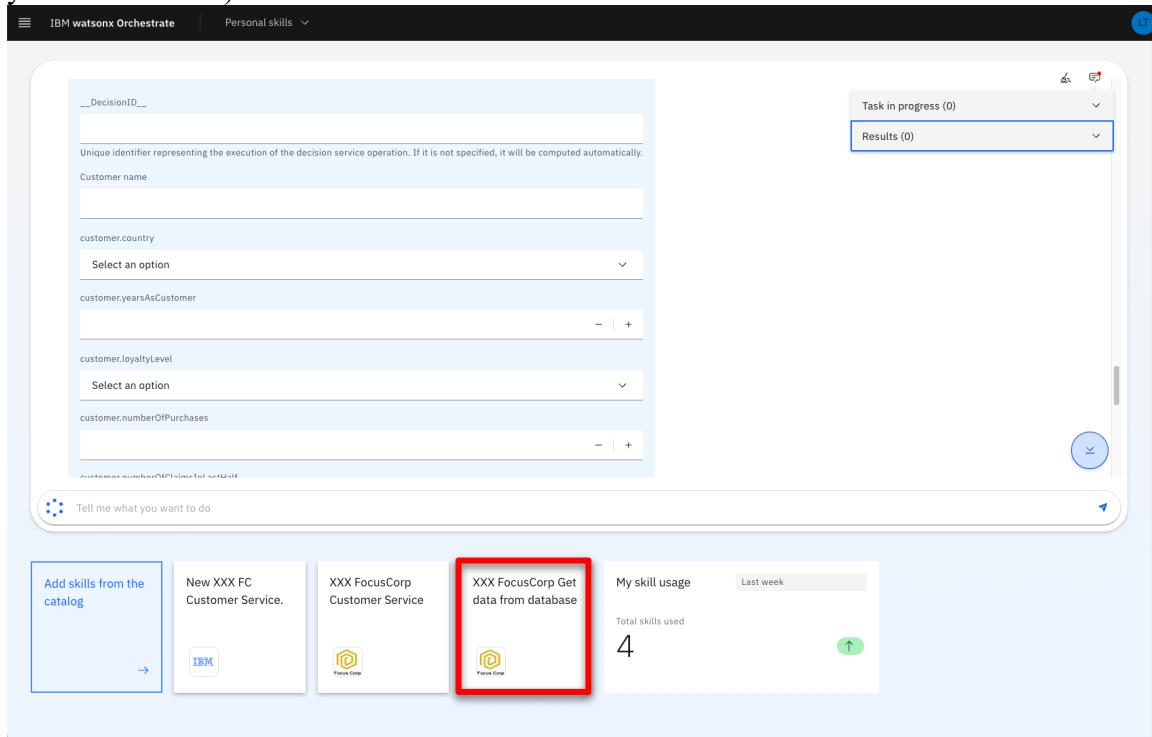
The decision service requires multiple pieces of data to process the return. Instead of requesting the agent to input this data manually, we'll query the FocusCorp database to retrieve the data automatically using another skill.

Action 2.5.2 Scroll through the set of required inputs.



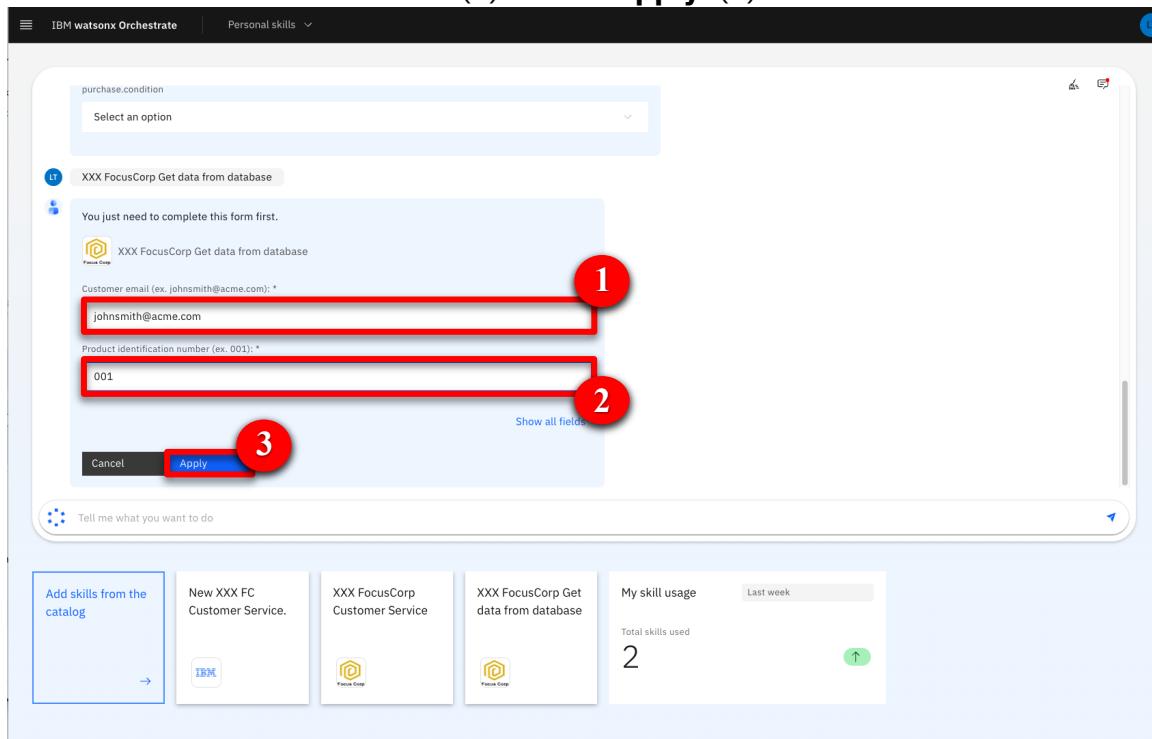
ODM and watsonx Orchestrate Platinum demonstration script

Action 2.5.3 Click the **XXX FocusCorp Get data from database** skill ('XXX' being your own initials).



Narration: Let's use a customer email and product identification number, just like a call center agent would do.

Action 2.5.4 Enter '**johnsmith@acme.com**' as **Customer email** (1)- Enter '**001**' as **Product identification number**(2)- Click '**Apply**' (3).



ODM and watsonx Orchestrate Platinum demonstration script

Narration: The database skill has returned the customer and item details from the FocusCorp database. We can now use the database skill to feed the decision skill. To do so, we will create a composite skill.

Action 2.5.5 Scroll through the result to show the data recovered from the back-end system.

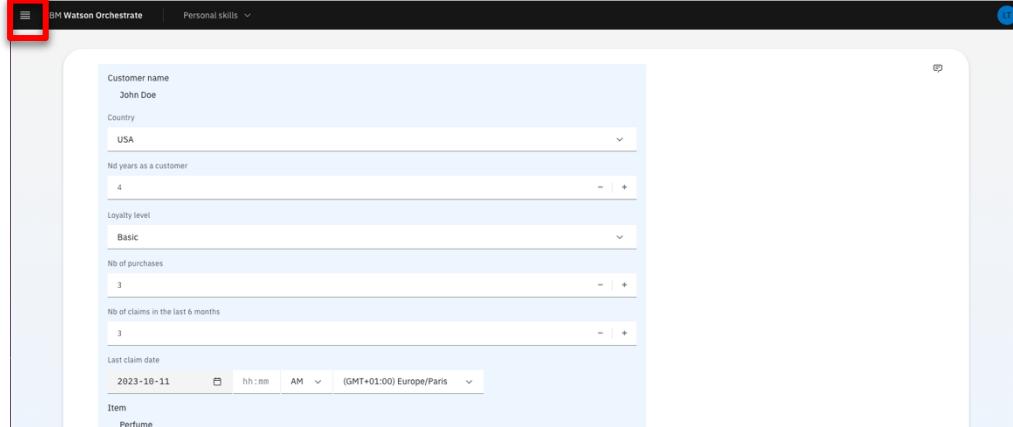
The screenshot shows the IBM Watsonx Orchestrate Platinum interface. On the left, there is a large input form with fields for Price (80), Purchase date (2023-10-11), Return reason (Enter_a_reason), Item condition (Enter_a_condition), Warranty (years) (1), and Warranty type (Basic). A red arrow points down the right side of the screen, indicating the direction to scroll. On the right, there are two sections: "Task in progress (0)" and "Results (0)". At the bottom, there is a "Tell me what you want to do" search bar and a "My skill usage" section showing 5 total skills used last week. Below the search bar are four skill cards: "Add skills from the catalog", "New XXX FC Customer Service.", "XXX FocusCorp Customer Service", and "XXX FocusCorp Get data from database".

3- Sequencing skills into a composite skill

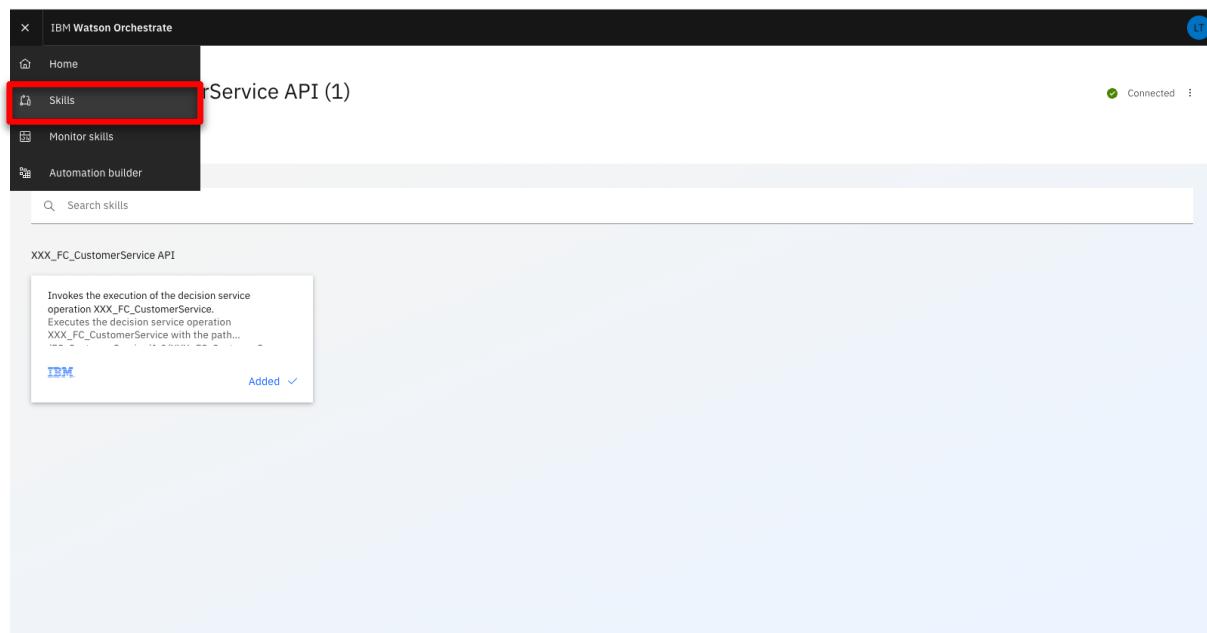
3.1 Create the customer service composite skill

Narration: Let's now work on this composite skill. As an automation builder, we can sequence multiple skills.

Action 3.1.1 Click the hamburger icon.

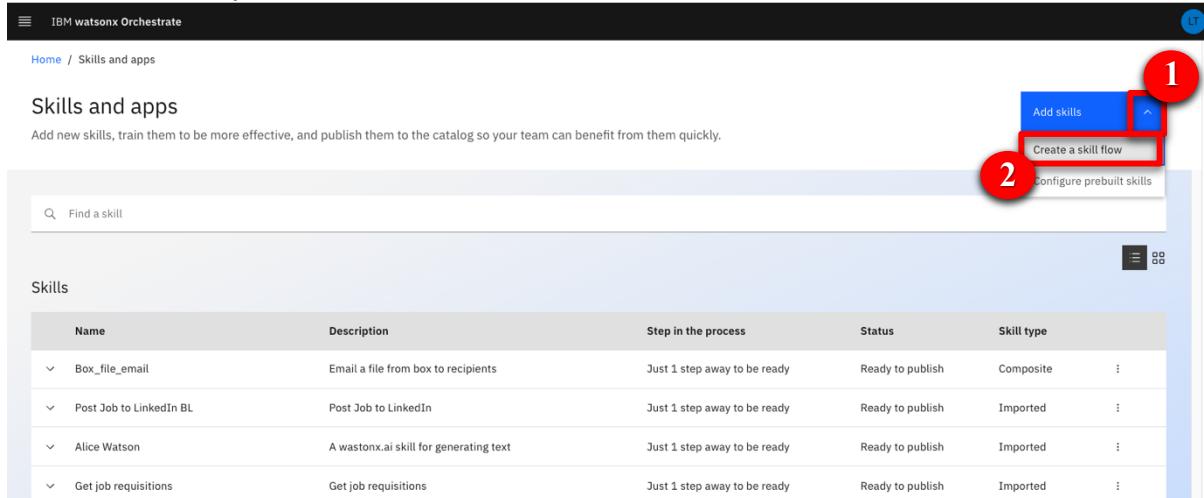


Action 3.1.2 Click Skills.



ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.3 Expand the **Add skills** menu (1). Click ‘Create a skill flow’ (2)

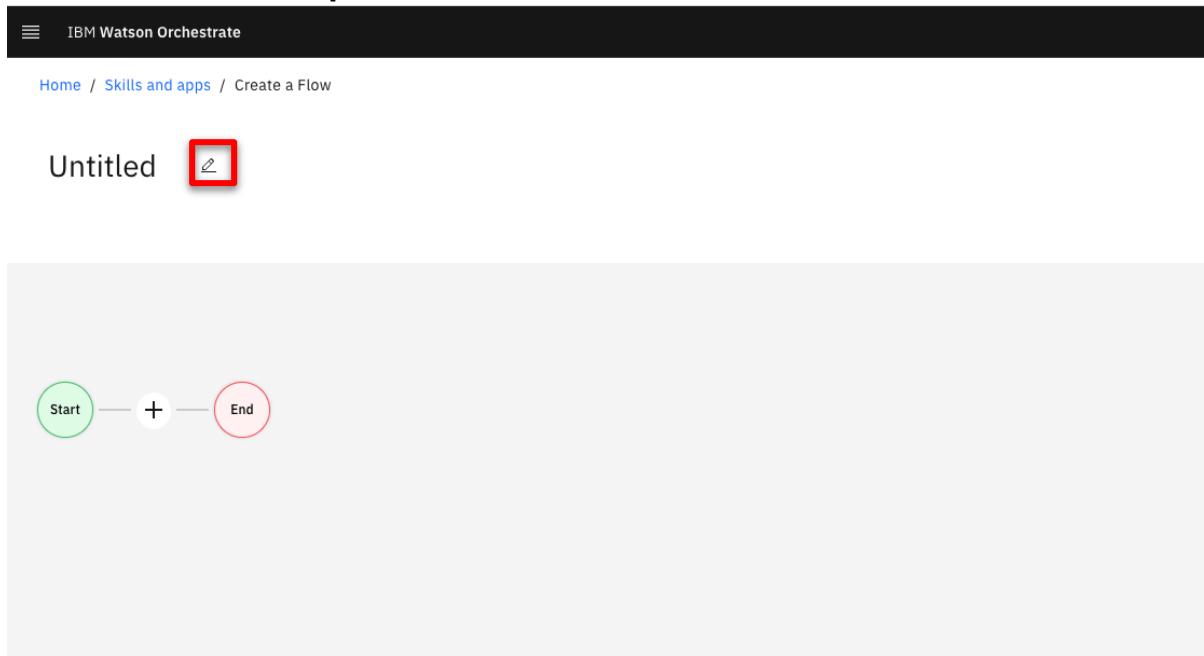


The screenshot shows the 'Skills and apps' section of the IBM Watson Orchestrate interface. At the top, there's a navigation bar with 'Home / Skills and apps'. Below it is a search bar with 'Find a skill'. The main area is titled 'Skills' and contains a table with four rows of skill information:

Name	Description	Step in the process	Status	Skill type	⋮
Box_file_email	Email a file from box to recipients	Just 1 step away to be ready	Ready to publish	Composite	⋮
Post Job to LinkedIn BL	Post Job to LinkedIn	Just 1 step away to be ready	Ready to publish	Imported	⋮
Alice Watson	A wastonx.ai skill for generating text	Just 1 step away to be ready	Ready to publish	Imported	⋮

Narration: The first step is to give a name and description to the skills so that users can easily recognize it in the catalog.

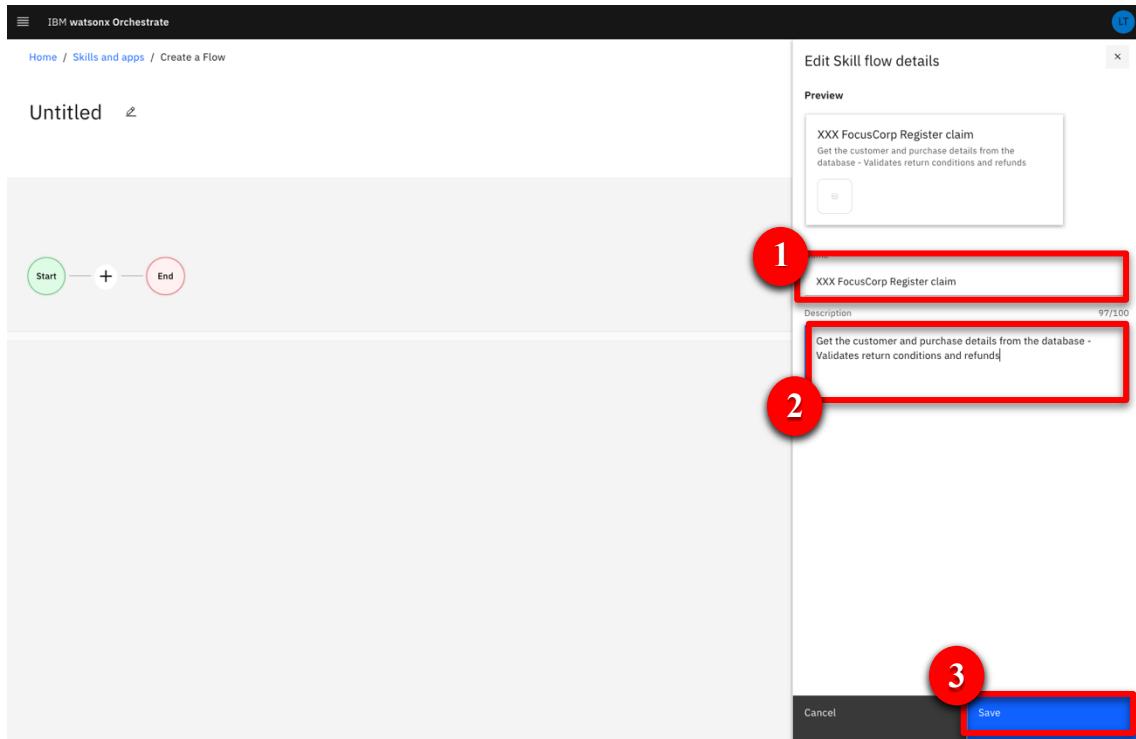
Action 3.1.4 Click the **pencil** icon to name the skill flow.



The screenshot shows the 'Create a Flow' screen. At the top, it says 'Untitled' with a pencil icon to its right, which is highlighted with a red box. Below the title, there's a flow diagram consisting of two nodes: a green oval labeled 'Start' and a red oval labeled 'End', connected by a horizontal line with a plus sign in the center.

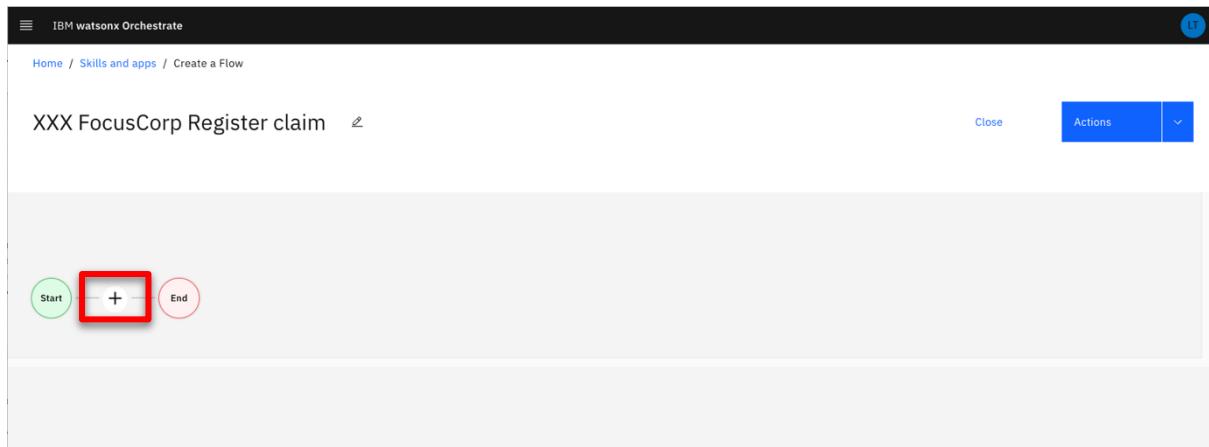
Narration: The description will help users to understand the actions performed by the composite skill.

Action 3.1.5 Enter a skill name that contains your ‘XXX’ initials(e.g. ‘**XXX FocusCorp Register claim**’) (1). In the description field, enter ‘**Get the customer and purchase details from the database - Validates return conditions and refunds**’ (2). Click **Save** (3).



Narration: Next, we must add the two skills we need for this flow. The first one will collect the data from the database. The second one, which we created from ODM, will analyze the data and return a decision.

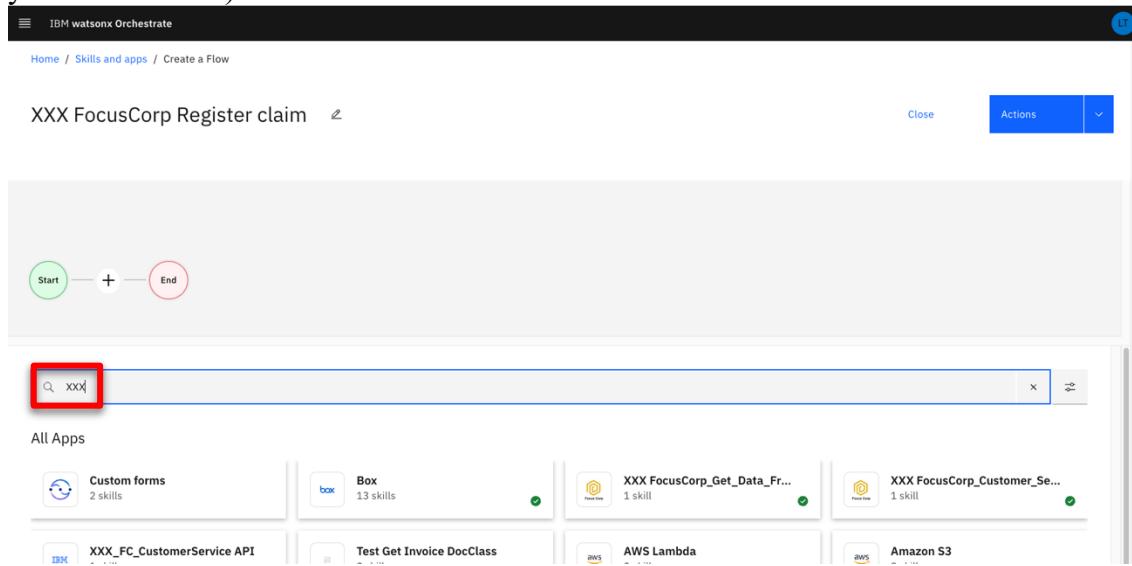
Action 3.1.6 Click the + button.



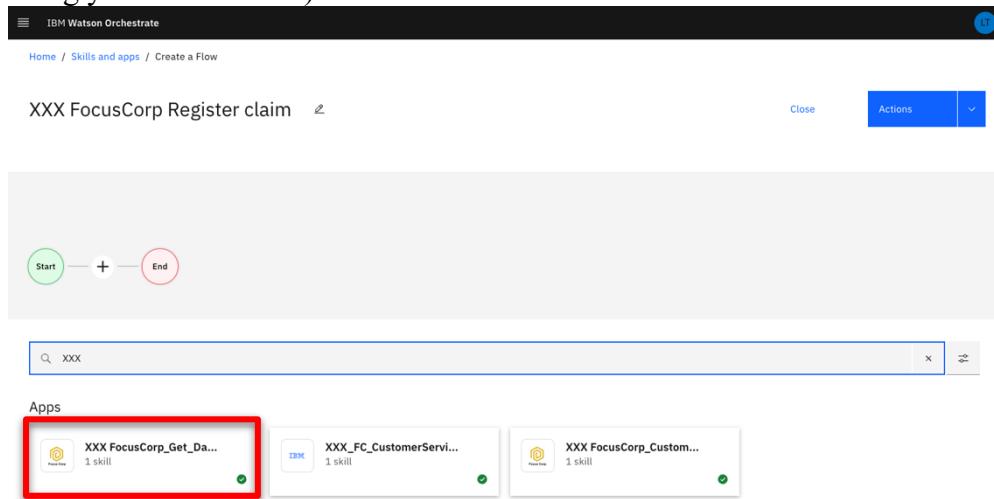
Narration: Let's search for the skills we have added in our personal skills.

ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.7 Search for ‘XXX’ to find all your skills from the catalog (‘XXX’ being your own initials)



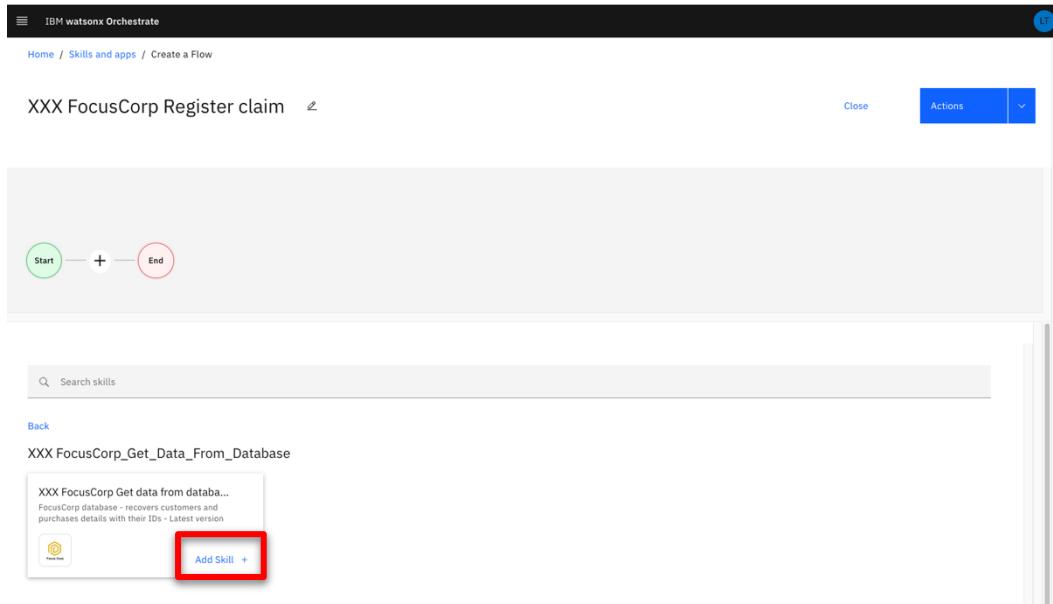
Action 3.1.8 Click the **XXX FocusCorp_Get_Data_from_database** skill ('XXX' being your own initials).



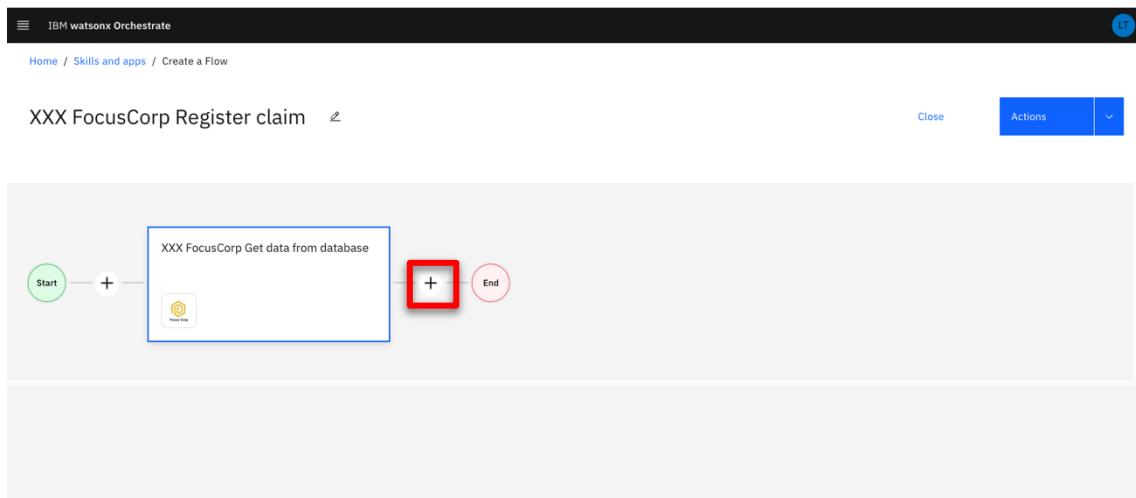
Narration: We can add the database skill to the flow.

ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.9 Click the Add skill +.



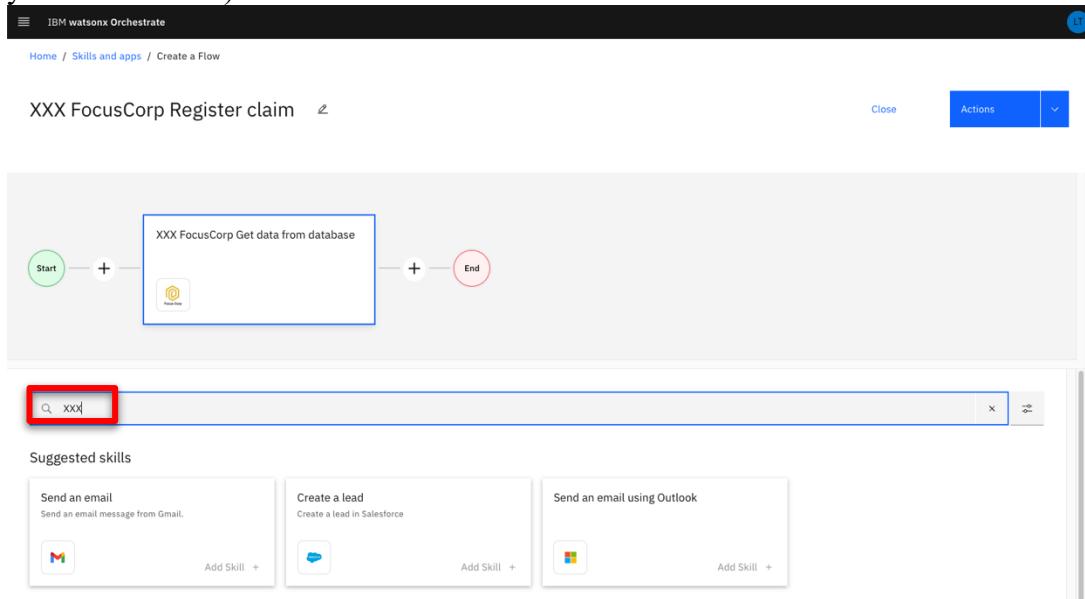
Action 3.1.10 Click + button.



Narration: Next, let's search for the decision skill.

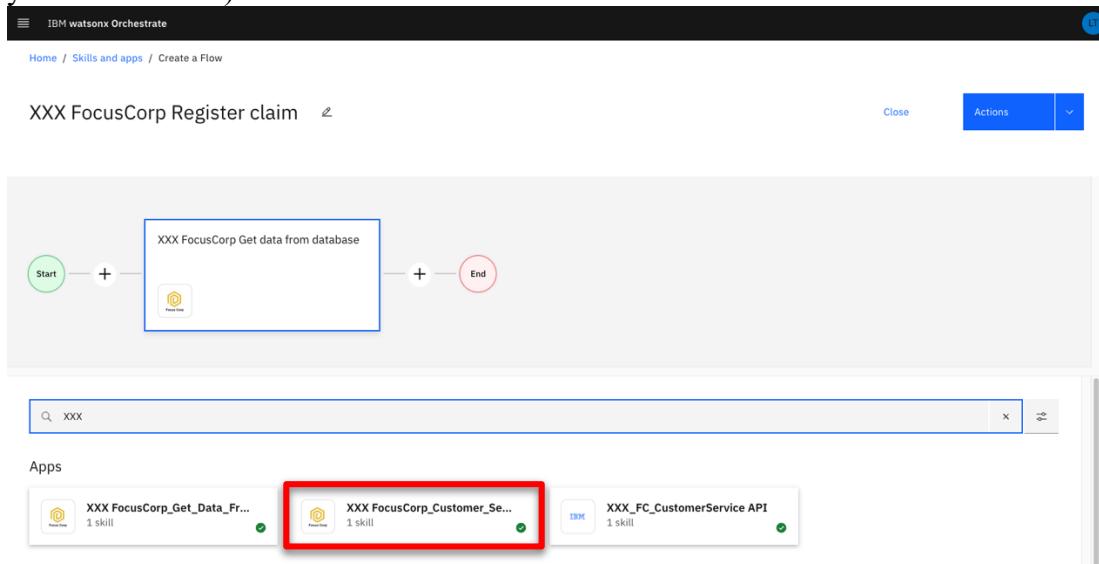
ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.11 Search for ‘XXX’ to find all your skills from the catalog (‘XXX’ being your own initials).



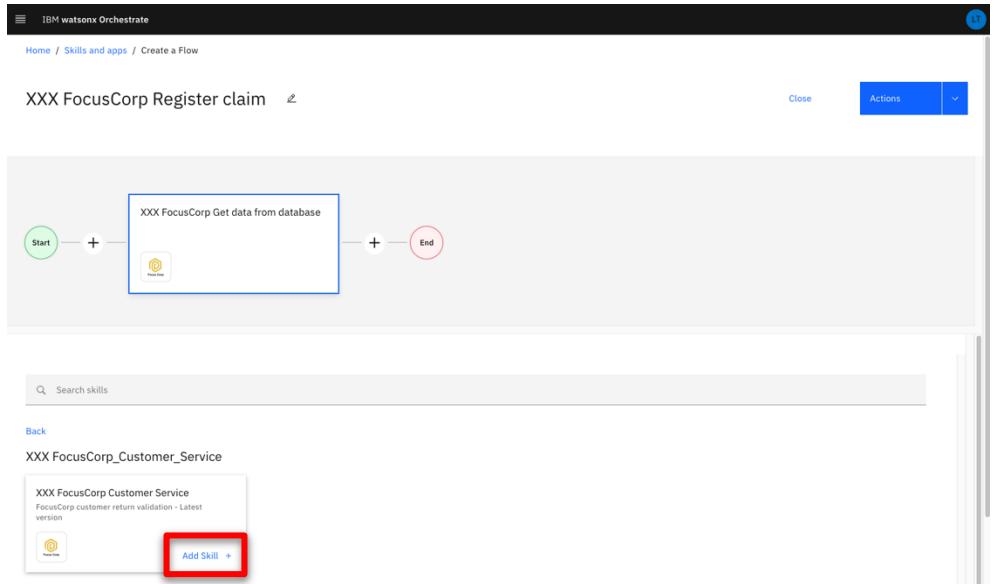
Narration: To save time, we will use a pre-configured version of the decision skill.

Action 3.1.12 Click the ‘XXX FocusCorp_Customer_Service’ skill (‘XXX’ being your own initials).

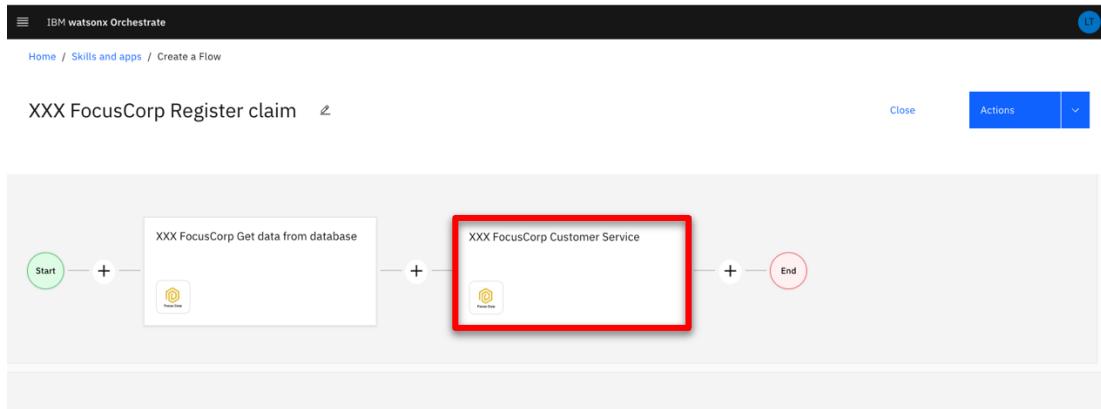


ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.13 Click Add skill +.



Action 3.1.14 Click second skill in the flow.



Narration: The two skills are now sequenced in the flow. Next, we must map the output parameters of the database skill to the input fields of the decision skill. This operation can be automated using watsonx Orchestrate's intelligent mapping capability. Orchestrate is able to suggest a mapping based on attributes, names and types.

ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.15 Click **Generate mapping suggestions**.

The screenshot shows the IBM Watsonx Orchestrate interface. At the top, there's a navigation bar with 'IBM Watsonx Orchestrate' and a 'Create a Flow' button. Below the navigation is a flow diagram titled 'XXX FocusCorp Register claim'. The flow starts with a 'Start' node, followed by a 'XXX FocusCorp Get data from database' skill, then a 'XXX FocusCorp Customer Service' skill (which is highlighted with a blue border), and finally an 'End' node. Underneath the flow, there's a configuration section for the 'XXX FocusCorp_Customer_Service' skill. It includes fields for 'Input' and 'Output', a 'Generate mapping suggestions' button (which is highlighted with a red box), and checkboxes for 'Repeat this skill', 'Hide this form from the user', and 'Clear all mappings'. There are also two input fields: 'customer.name' and 'customer.country'.

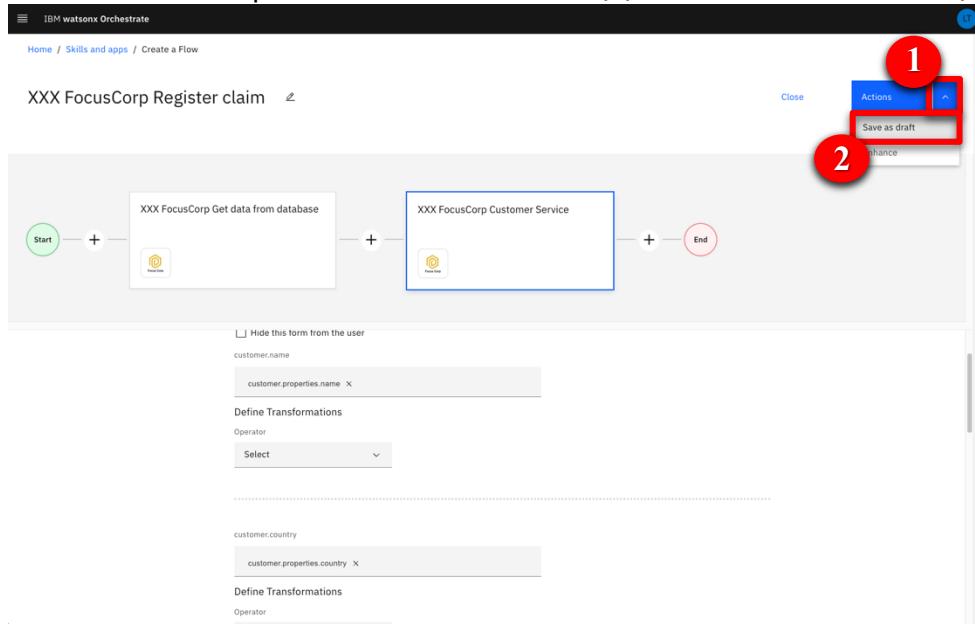
Narration: We can see all the attributes are correctly mapped between the two skills in just a single click. No additional action is required. We can now save the skill to add it to the catalog, as well as publish it to users.

Action 3.1.16 Point out the mapping.

This screenshot continues from the previous one, showing the 'XXX FocusCorp Customer Service' skill configuration. Two specific mapping entries are highlighted with red arrows: 'customer.name' is mapped to 'customer.properties.name' and 'customer.country' is mapped to 'customer.properties.country'. A success message 'Success Mapping suggestions found for the skill.' is visible in the top right corner. The rest of the interface is similar to the previous screenshot, showing the flow diagram and other skill details.

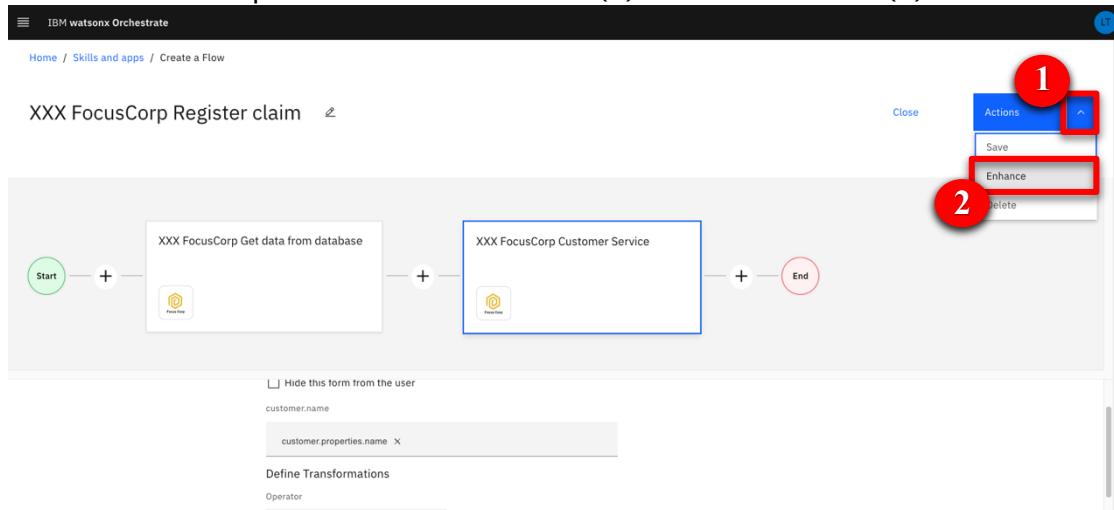
ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.17 Expand the Actions menu (1) – Click Save as draft (2)



Narration: Let's now enhance the composite skill by adding some phrases that will be used to invoke the skill in the chat interface of watsonx Orchestrate.

Action 3.1.18 Expand the Actions menu (1) – Click Enhance (2)



ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.19 Click Phrases.

The screenshot shows the 'Enhance this skill' interface for the 'XXX FocusCorp Register claim' skill. The 'Phrases' tab is active, indicated by a red box around its label. In the input field, the phrase 'return a product' has been typed. To the right, there are two preview sections: one for the catalog view showing the skill's name and a small icon, and another for the skill set view showing a similar layout with a small icon.

Narration: Let's add 'return a product' to the training set. Many more phrases can be added to improve the NLP training.

Action 3.1.20 Type 'return a product'.

The screenshot shows the 'Enhance this skill' interface for the 'XXX FocusCorp Register claim' skill. The 'Phrases' tab is active, indicated by a red box around its label. In the input field, the phrase 'return a product' has been typed. Below the input field is a button labeled 'Auto-generate phrases (Experimental)'. To the right, there are two preview sections: one for the catalog view showing the skill's name and a small icon, and another for the skill set view showing a similar layout with a small icon.

Narration: Our composite skill is ready to be published. Just by entering 'return a product' in the chat interface, watsonx Orchestrate will understand that this skill should be used.

ODM and watsonx Orchestrate Platinum demonstration script

Action 3.1.21 Click Publish.

The screenshot shows the 'Phrases' tab of a skill configuration page. The skill name is 'Enhance the “XXX FocusCorp Register claim” skill'. The 'Phrases' section lists several phrases: 'XXX FocusCorp Register claim', 'Get the customer and purchase details from the CRM - Vali...', 'return a product', and an empty input field 'Enter new train phrase'. Below the input fields is a button 'Auto-generate phrases (Experimental)'. At the bottom right of the page, there are three buttons: 'Cancel', 'Publish' (which is highlighted with a red box), and 'Save as draft'.

Action 3.1.22 Type Home.

The screenshot shows the 'Skills and apps' page of the IBM Watson Orchestrate interface. The 'Home' link in the navigation bar is highlighted with a red box. A green notification bar at the top right says 'Published successful Published skill.' with a timestamp '15:09:31'. The main area displays a table of skills:

Name	Description	Step in the process	Status	Skill type
XXX FocusCorp Register claim	Get the customer and purchase ...	Ready to use	Published	Composite
Watson translator	Translates text from one langu...	Just 1 step away to be ready	Ready to publish	Imported
CT Execute MAH-Recommend-produ...	CT Execute MAH-Recommend-produ...	Ready to use	Published	Automation
Execute retention-offer	Execute retention-offer	Ready to use	Published	Automation
Composite with decision	Composite with decision	Ready to use	Published	Composite
HelloWorldLCT	HelloWorldLCT	Ready to use	Published	Imported
ODM CP4BA OnPrem Invokes the e...	Executes the decision service ...	Ready to use	Published	Imported
Vacation approval	Vacation approval	Ready to use	Published	Imported
alice skill flow from cluster		Just 1 step away to be ready	Ready to publish	Composite
Draft - Vacation Evaluation	Eligibility to evaluate the va...	Ready to use	Published	Composite

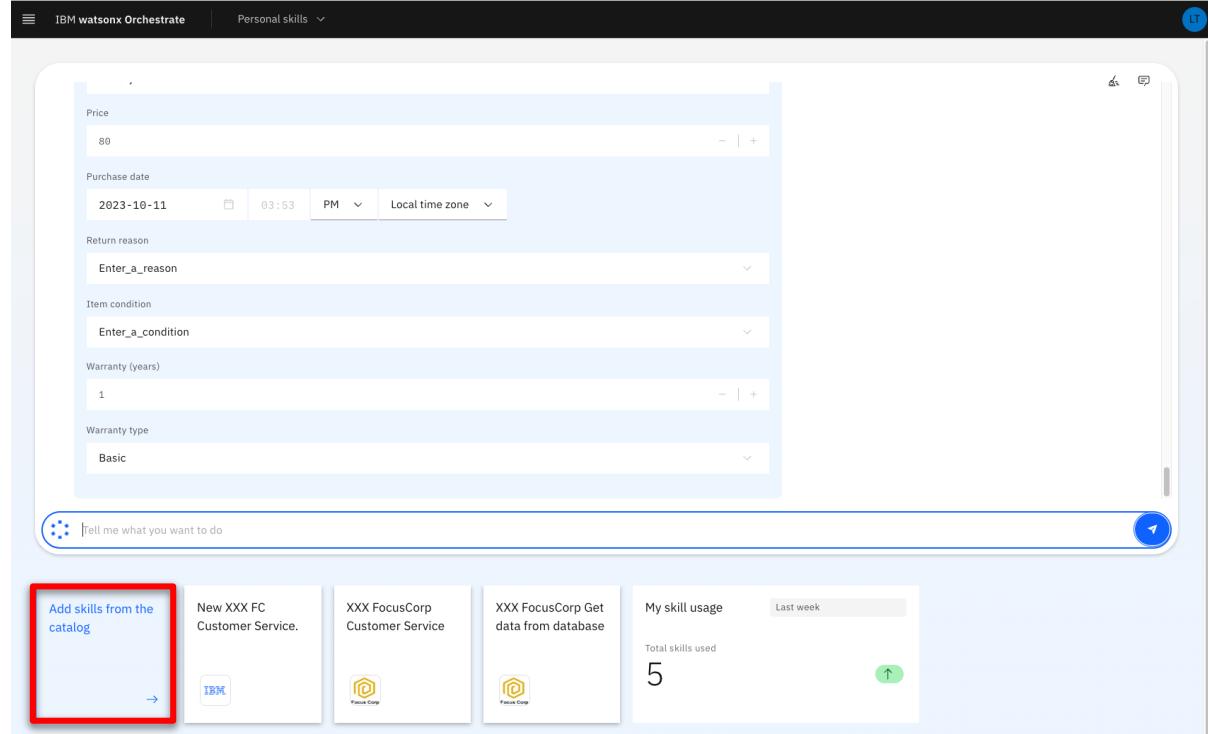
At the bottom left, it says 'Items per page: 10' and '1-10 of 151 items'. At the bottom right, there are navigation links for '1 of 16 pages' and arrows.

4- Using the composite skill in the call center

4.1 Add the customer service composite skill

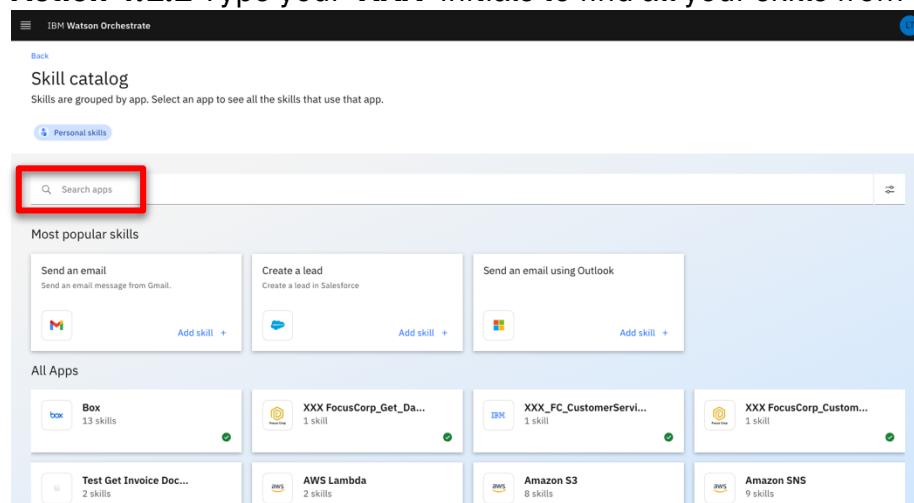
Narration: Since we are using a shared environment for this demonstration, we'll need to add the composite skill to our personal skillset. In a real life situation, the skill would be added to the team skillset so that any call center agent could easily access it.

Action 4.1.1 Click Add skills from the catalog.



The screenshot shows the 'Personal skills' tab in the IBM Watson Orchestrate interface. At the top, there are input fields for 'Price' (80), 'Purchase date' (2023-10-11, 03:53 PM, Local time zone), 'Return reason' (Enter_a_reason), 'Item condition' (Enter_a_condition), 'Warranty (years)' (1), and 'Warranty type' (Basic). Below these fields is a text input field with placeholder 'Tell me what you want to do'. At the bottom of the screen, there is a navigation bar with several items: 'Add skills from the catalog' (highlighted with a red box), 'New XXX FC Customer Service.', 'XXX FocusCorp Customer Service', 'XXX FocusCorp Get data from database', and 'My skill usage' (Last week, Total skills used: 5, with an upward arrow icon).

Action 4.1.2 Type your 'XXX' initials to find all your skills from the catalog.



The screenshot shows the 'Skill catalog' interface in the IBM Watson Orchestrate interface. At the top, there is a search bar labeled 'Search apps'. Below the search bar, there are sections for 'Most popular skills' and 'All Apps'. The 'Most popular skills' section includes cards for 'Send an email' (using Gmail), 'Create a lead' (using Salesforce), and 'Send an email using Outlook'. The 'All Apps' section lists various applications with their skill counts: Box (13 skills), XXX FocusCorp_Get_Data... (1 skill), XXX_FC_CustomerService... (1 skill), XXX FocusCorp_Custom... (1 skill), Test Get Invoice Doc... (2 skills), AWS Lambda (2 skills), Amazon S3 (8 skills), and Amazon SNS (9 skills).

ODM and watsonx Orchestrate Platinum demonstration script

Action 4.1.3 Click the **Composite** tile.

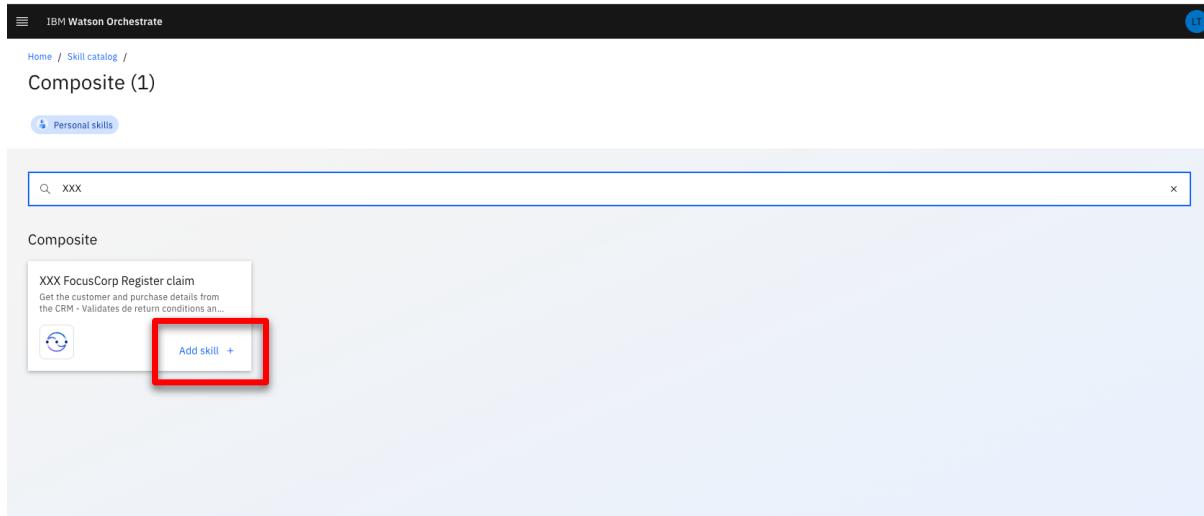
The screenshot shows the 'Skill catalog' page of the IBM Watson Orchestrate interface. At the top, there's a search bar with the placeholder 'xxx'. Below it, a section titled 'Apps' lists several skill flows. One of them, 'Composite', is highlighted with a red box. The 'Composite' tile contains the text 'Composite' and '1 skill'.

Action 4.1.4 Search for 'XXX' ('XXX' being your own initials).

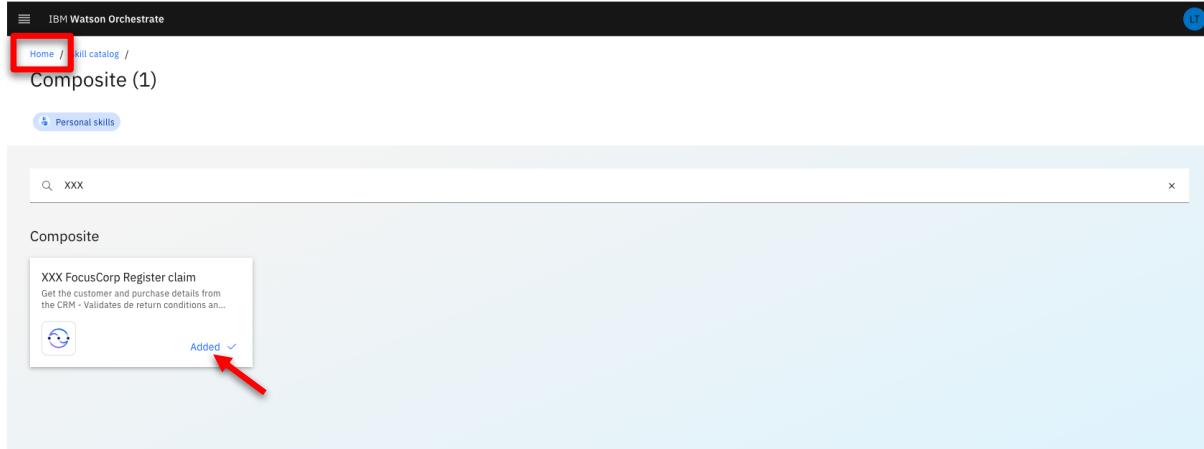
The screenshot shows the 'Skill catalog' page after searching for 'xxx'. The search bar at the top now contains 'xxx' and is highlighted with a red box. The results are displayed under the heading 'Composite' and show nine different skill flows, each with a preview image, name, and a 'Add skill +' button. The skills listed include 'tecra Onboarding flow', '_SN_Job requisition and send for ap...', 'Kyle's Generate and Email content', 'Stellaonboardprocess', 'ywsComposite', 'Composite BAW, RPA, Decision - CT', 'Lu onboarding flow', 'ViewCandidatesLocation-Ray', 'Satya-Composite-3', 'Get lists from Trello board and email ...', 'test skill with & char', and 'Composite BAW and RPA - Andy Choi'.

ODM and watsonx Orchestrate Platinum demonstration script

Action 4.1.5 Click Add skill +.



Action 4.1.6 Check that your skill is added. Click Home.



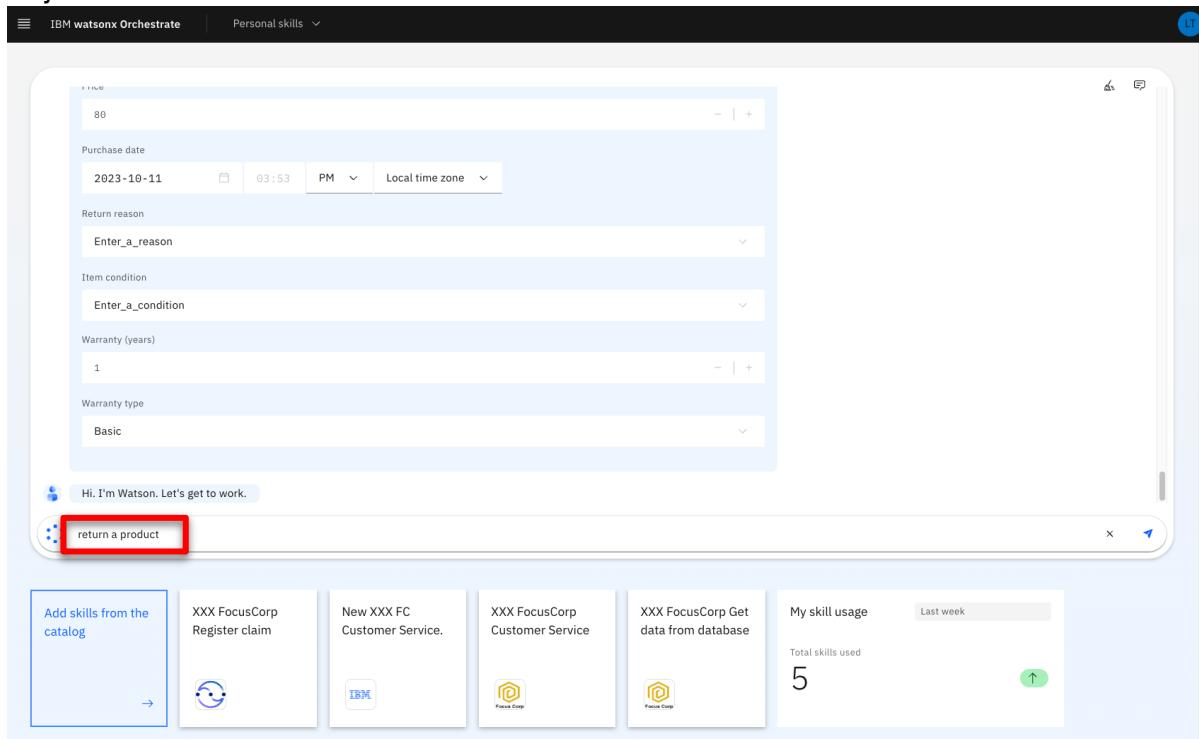
4.2 Use the customer service composite skill

Narration: We're now ready to use the composite skill.

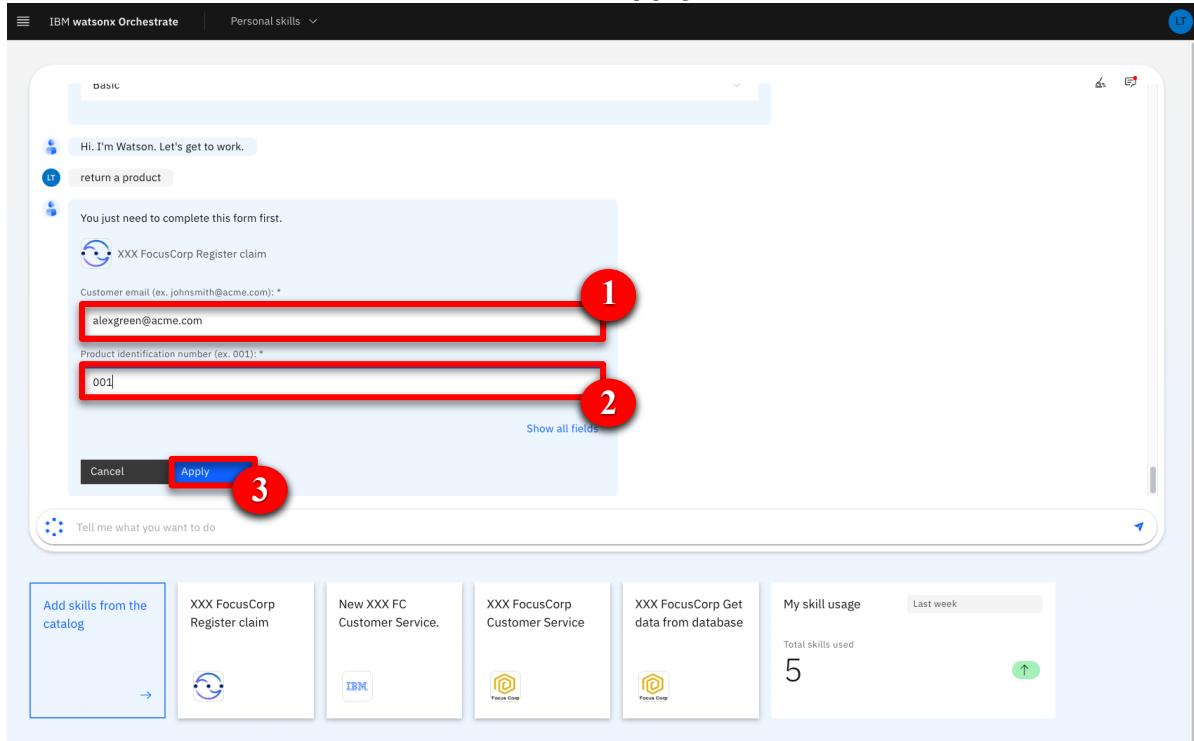
Let's now assume the role of a customer service agent who receives a call from a customer. We'll ask for their customer email and the product ID of the item they want to return.

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Action 4.2.2 Type ‘return a product’ and press the enter/return key on your keyboard.



Action 4.2.3 Enter ‘alexisgreen@acme.com’ as Customer email (1). Enter ‘001’ as Product identification number (2). Click ‘Apply’ (3).



Narration: The customer tells us they're returning the product because it arrived late.

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Action 4.2.4 For the **Return reason** field, select **Arrived_late** (1). For the **Item condition** field, select **Opened** (2). Click **Show all fields** (3).

The screenshot shows the IBM Watsonx Orchestrate interface. A modal window is open, prompting the user to "complete this form first". Inside the modal, there are two dropdown menus: "Return reason" set to "Arrived_late" (marked with a red circle labeled 1) and "Item condition" set to "Opened" (marked with a red circle labeled 2). Below these is a blue "Show all fields" button (marked with a red circle labeled 3). At the bottom of the modal are "Cancel" and "Apply" buttons.

Narration: All the other required fields have been automatically pre-filled, saving us a lot of time.

Action 4.2.5 Point out the other pre-field fields .

The screenshot shows the IBM Watsonx Orchestrate interface with a customer profile for "Alex Green". Several fields are highlighted with red arrows: "Nb of years as customer" (set to 10), "Total nb of purchases" (set to 30), and "Nb of claims in the past 6 months" (set to 2). The "Country" field is set to "USA". The "Last claim date" field shows "2023-08-09" with a calendar icon, "09:16" with a clock icon, "AM" with a dropdown arrow, and "Local time zone" with a dropdown arrow. At the bottom of the profile section is a "Tell me what you want to do" input field.

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Action 4.2.6 Scroll down and click 'Show fewer fields'.

The screenshot shows a configuration interface for a product. At the bottom right of the main form area, there is a blue rectangular button labeled "Show fewer fields". This button is highlighted with a red border. Below the main form, there is a footer bar with several icons and links, including "Add skills from the catalog", "XXX FocusCorp Register claim", "New XXX FC Customer Service", "XXX FocusCorp Customer Service", "XXX FocusCorp Get data from database", and "My skill usage Last week". The "My skill usage" section shows a total of 5 skills used last week.

Action 4.2.7 Click Apply.

The screenshot shows a return form. At the bottom right of the main form area, there is a blue rectangular button labeled "Apply". This button is highlighted with a red border. Below the main form, there is a footer bar with several icons and links, including "Add skills from the catalog", "XXX FocusCorp Register claim", "New XXX FC Customer Service", "XXX FocusCorp Customer Service", "XXX FocusCorp Get data from database", and "My skill usage Last week". The "My skill usage" section shows a total of 5 skills used last week.

Narration: In one click, the ODM decision service returns a decision and additional information, such as the refund amount or any required shipping fees. All these results have been dynamically calculated by the rules we saw at the beginning of this scenario.

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Note: You can execute the demonstration with different combination of users (e.g. The other emails bellow) and items (See highlighted product numbers bellow) to show the different decision outcomes.

Customer email ↑↓	Name ↑↓	Country ↑↓	Years as customer ↑↓	Loyalty ↑↓	NB Purchase ↑↓	NB Claims ↑↓	Last return date ↑↓
johnsmith@acme.com	John Smith	USA	4	Basic	3	3	Oct 11, 2023
mikebrown@acme.com	Mike Brown	Canada	6	Gold	6	5	Aug 3, 2023
lisacarter@acme.com	Lisa Carter	USA	1	Basic	10	9	Oct 17, 2023
alexgreen@acme.com	Alex Green	USA	10	Gold	30	2	Aug 9, 2023
marymiller@acme.com	Mary Miller	Other	2	Platinum	100	5	Oct 12, 2023
Otherwise	Jane Doe	Other	10	Platinum	5	0	Oct 12, 2023

Product number ↑↓	Description ↑↓	Price ↑↓	Category ↑↓	Purchase date ↑↓	Item condition ↑↓	Return reason ↑↓	Warranty type ↑↓	Warranty duration ↑↓
001	Perfume	80	Beauty	Oct 11, 2023	Enter a condition	Enter a reason	Basic	1
002	The Little Prince	50	Books	Sep 4, 2020	Enter a condition	Enter a reason	Basic	2
003	T-Shirt-BLUE-XL	100	Clothing	May 19, 2023	Enter a condition	Enter a reason	Lifetime	2
004	Fish and chips	500	Grocery	Oct 20, 2018	Enter a condition	Enter a reason	Basic	0
005	Work bench	1,500	Tools	Jul 13, 2023	Enter a condition	Enter a reason	Extended	3
Otherwise	Other Purchase	1,000	Tools	Oct 4, 2023	Enter a condition	Enter a reason	Basic	5

Action 4.2.8 Point out the decision results.

The screenshot shows the IBM Watsonx Orchestrate interface. A central modal window displays a 'Return decision' form. The 'Accepted' field is highlighted with a red arrow. The 'Refund amount' field contains '6.4' with a red arrow. The 'Comments' section includes a calculated value: 'The return is accepted - Gold loyalty shipping discount: 2.6% - Shipping fee: 8.5 - Refund rate: 80.0%' with a red arrow pointing to it. The 'Shipping fee' field contains '8.279' with a red arrow. The 'Refund' field is highlighted with a red arrow. The 'Decision date' field is set to '2023-12-04' with a red arrow. At the bottom of the screen, there's a skills catalog with cards for 'Add skills from the catalog', 'XXX FocusCorp Register claim', 'New XXX FC Customer Service.', 'XXX FocusCorp Customer Service', 'XXX FocusCorp Get data from database', and 'My skill usage' which shows 'Last week' and 'Total skills used: 5'.

Summary

In this demo, we saw how a company uses IBM watsonx Orchestrate to leverage and expose existing ODM Decision Services in new ways.

We used the Discovery Service to create a new skill that invokes rule-based decisions managed by ODM. We then created a composite skill that orchestrates a sequence of skills, mapping their respective inputs and outputs automatically. Finally, we used watsonx Orchestrate NLP to invoke this composite skill using a chat interface.

Thank you for attending today's presentation.