Watsonx.assistant Setup

1: Adding Custom Extension
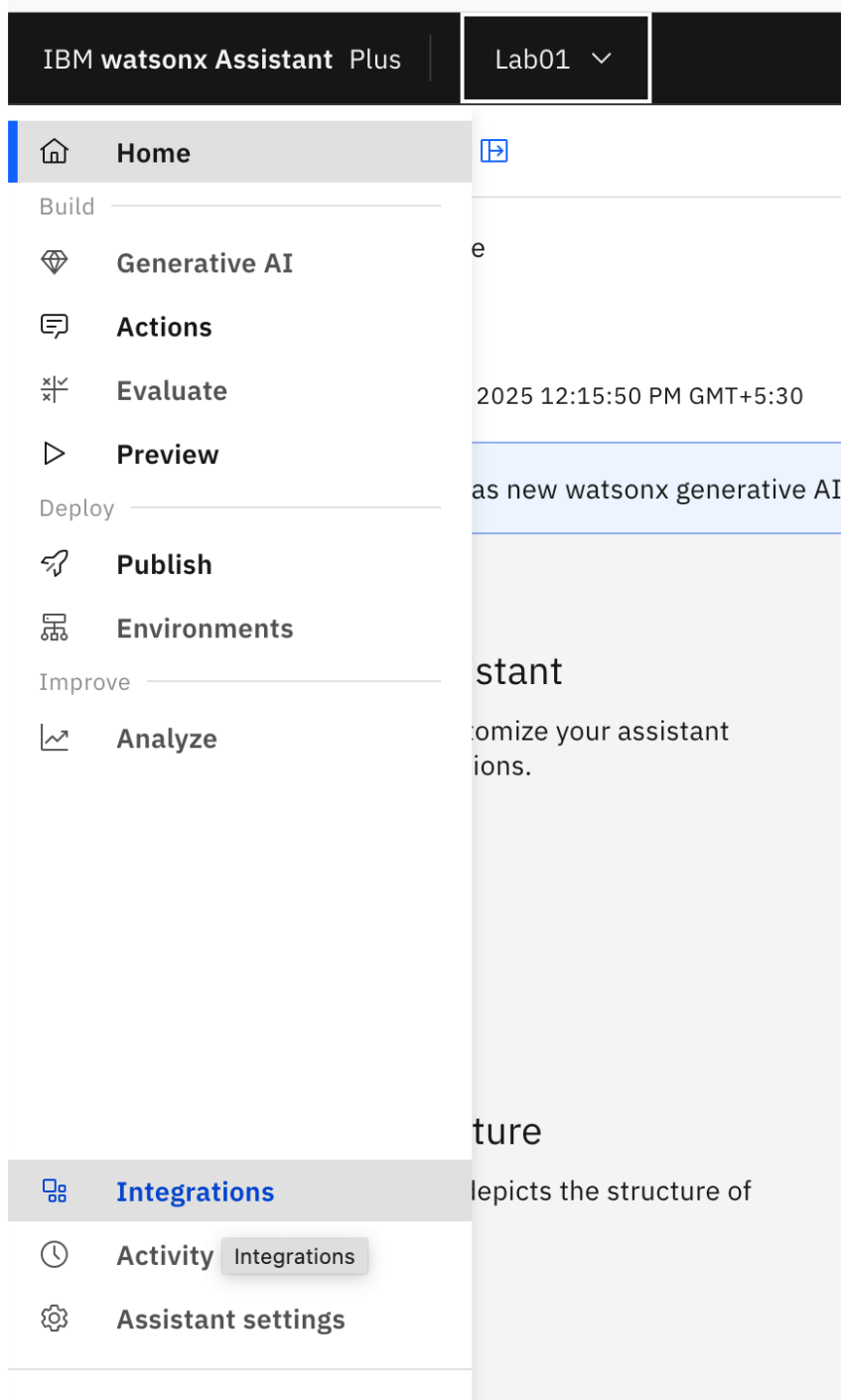
1.1 Create new Assistant
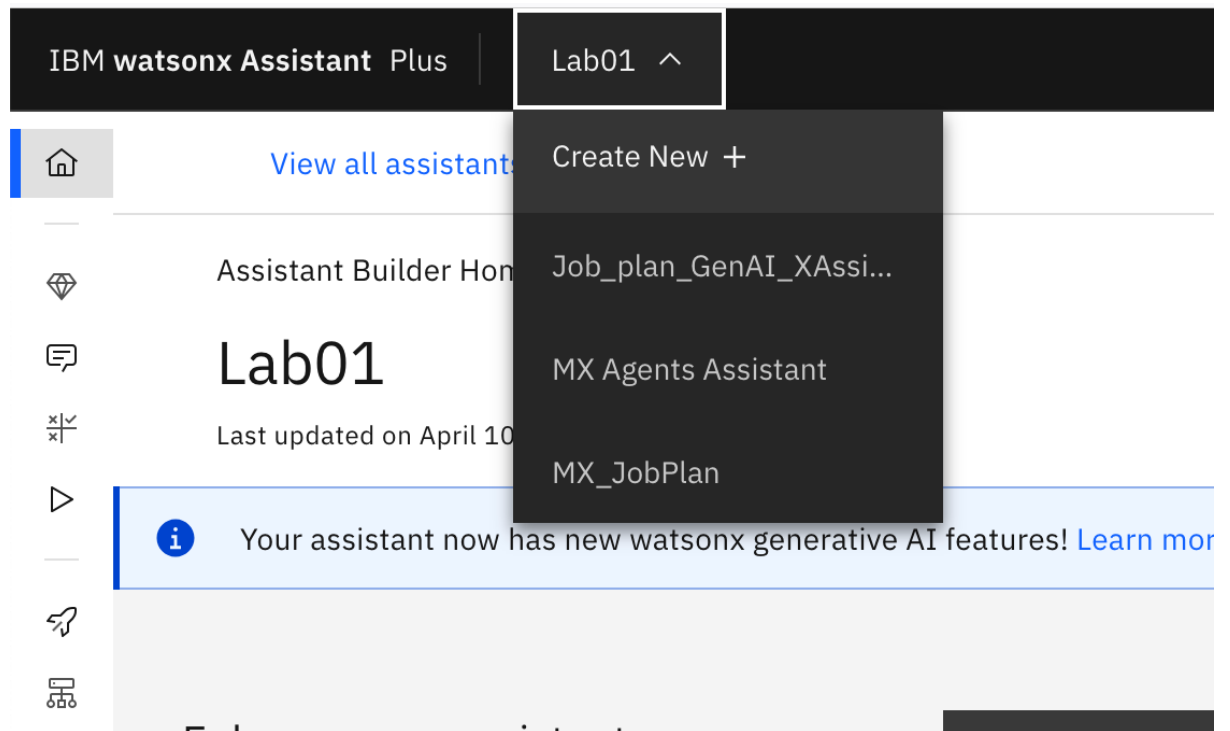
1.2 Enter Name as Lab01

1.3 From Left Navigation, select Integration option.

IBM **watsonx Assistant** Plus

Lab01 ⌄

⌂ **Home**

Build ────────

◈ **Generative AI**

▱ **Actions**

▒ Evaluate

▷ **Preview**

Deploy ────────

⟋ **Publish**

⛁ **Environments**

Improve ────────

⤳ **Analyze**

⊞ **Integrations**

◷ Activity   Integrations

⚙ **Assistant settings**

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1.4 Click on Build Custom Extension

Custom extension

Close Next

○ Get started   ○ Basic information   ○ Import OpenAPI   ○ Review extension

Get started

Create a custom extension to tailor the experience for your customers.

Steps to setting up custom extensions:

1. Provide an extension name and description that clearly explains what the extension accomplishes.

2. Import your OpenAPI document as a JSON file to start building your custom extension.

3. Select the environment (Production, Development, or Stage) to use your extension and the authentication type to complete the setup process.

1.5 Enter Extension Name as "WD" and click Next
1.6 Import OpenAPI, Import the WD.json

Custom extension

Close Next

⊘ Get started   ⊘ Basic information   ◑ Import OpenAPI   ○ Review extension

Import OpenAPI

Import an OpenAPI document in a .json format, describing the authentication and methods for your extension.

Drag and drop file here or click to upload

WD.json   ×

1.7 Click next and Finish

Custom extension

Close Finish

⊘ Get started   ⊘ Basic information   ⊘ Import OpenAPI   ◑ Review extension

Review extension

Review the servers and extension resources provided in the OpenAPI document.

Review authentication
Provided is a list of the authentication methods found within the OpenAPI document.

Authentication type	Required fields
Basic auth	username, password

Review servers
Provided is a list of the servers and server variables found within the OpenAPI document.

URL	Description	Variables
https:// {discovery_url}	The Watson Discovery URL as specfied in the manage/credentials on IBM Cloud or Cloud Pak for Data	discovery_url

1.8 Once Extension is displayed on Integration page, Click "Add" to add the extension to Watsonx.assistant

Open ✎   Open ✎   Open ✎

WX   WDD

Open ✎   Add +

Starter kits
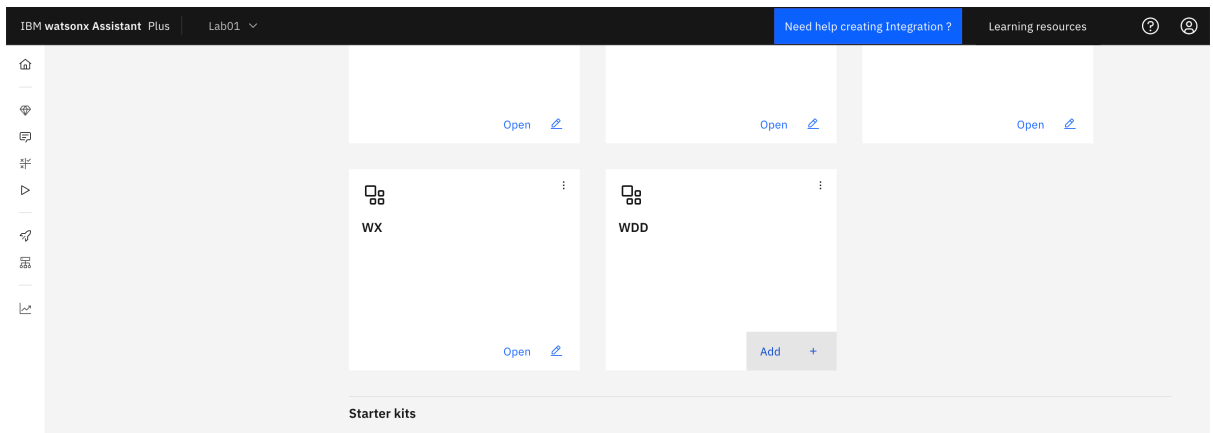
1.9 Select Next
1.10 Enter the details from your notes as below

Custom extension   Draft   Close   Next

Authentication

Authentication types are determined in the OpenAPI document and provide security for the extension.

Authentication type
| Basic auth | ⌄ |

Username
apiKey

Password
•••••••••••••••• 👁

Servers
https://{discovery_url} ⌄

ℹ Generated URL:
https://api.us-south.discovery.watson.cloud.ibm.com/instances/13e01265-023a-408b-87b9-2f087274ab0b

Server variables
Enter values for your server variables to create a valid generated URL for requests.

discovery_url
api.us-south.discovery.watson.cloud.ibm.com/instances/13e01265-0

1.11 Select Next and Finish the setup

Custom extension   Draft   Close   Finish

⊘ Get started   ⊘ Authentication   ◑ Review operations

Review operations
This table shows the operations defined in the OpenAPI document.

Operation	Method	Resource
⌄ Fetch passages	POST	/v2/projects/{project_id}/query

1.12 Similarly Add extension for Watsonx.ai using "watsonx-openapi.json" file as OpenAPI spec.

Custom extension

Close | Next

Get started | Basic information | Import OpenAPI | Review extension

Import OpenAPI

Import an OpenAPI document in a .json format, describing the authentication and methods for your extension.

Drag and drop file here or click to upload

extension-watsonx.json ✕

Custom extension

Close | Finish

Get started | Basic information | Import OpenAPI | Review extension

Review extension

Review the servers and extension resources provided in the OpenAPI document.

Review authentication
Provided is a list of the authentication methods found within the OpenAPI document.

Authentication type	Required fields
OAuth 2.0	Custom flow x-apikey: secret keys - [apikey]

Review servers
Provided is a list of the servers and server variables found within the OpenAPI document.

URL	Description	Variables
https://us-south.ml.cloud.ibm.com	WatsonX.ai v1-beta	

Review operations
This table shows the operations defined in the OpenAPI document.

Operation	Method	Resource
⌄ Generate text	POST	/ml/v1-beta/generation/text

1.13   Add the extension to watsonx.assistant, Enter the details from notes

Custom extension Draft

Close | Next

Get started | Authentication | Review operations

Authentication

Authentication types are determined in the OpenAPI document and provide security for the extension.

Authentication type
OAuth 2.0 ⌄

Grant type
Custom apikey ⌄

Custom Secrets

Apikey
••••••••••••••••••••• 👁

Client authentication ⓘ
Send as Body ⌄

Header prefix ⓘ
Bearer

Servers
https://us-south.ml.cloud.ibm.com ⌄

1.14   Select Next and Finish the setup.

Open ✎	Open ✎	Open ✎	Open ✎

⊟▫ ⋮	⊟▫ ⋮
WD	**WX**
Open ✎	Open ✎

Starter kits
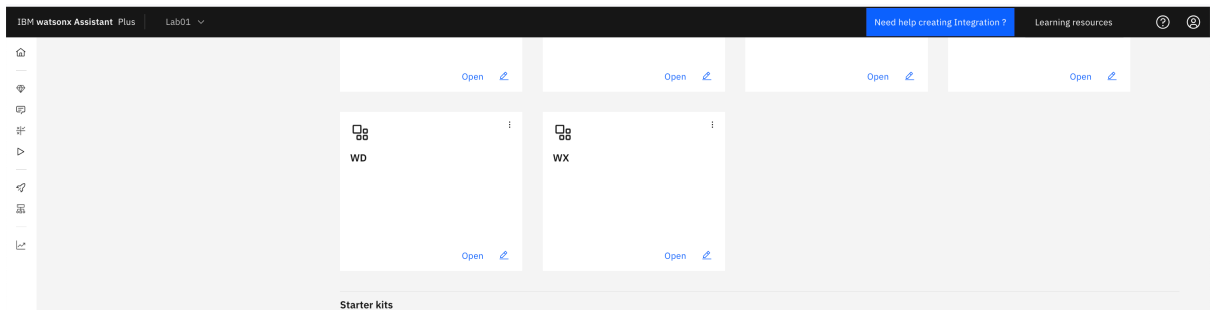
1.15   Add extension for Maximo Jobplan

Custom extension   Close   Next

⊘ Get started   ◑ Basic information   ⊙ Import OpenAPI   ⊙ Review extension

Basic information

Having a clear name and detailed description will help provide context
and clarity to what your extension does.

Extension name

```
CRATE_MX_JOB_PLAN
```

Extension description   0/128

```
Example: This extension provides an integration with an external
application.
```

1.16   Select "create_Jobplan.json" as OpenAPI Spec.

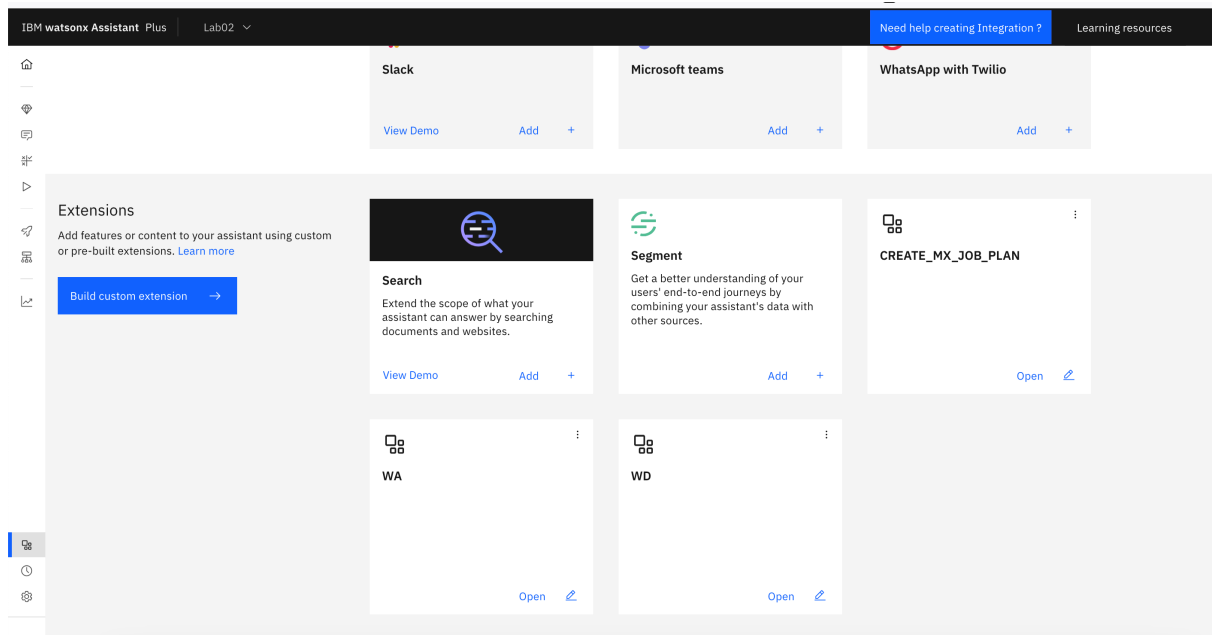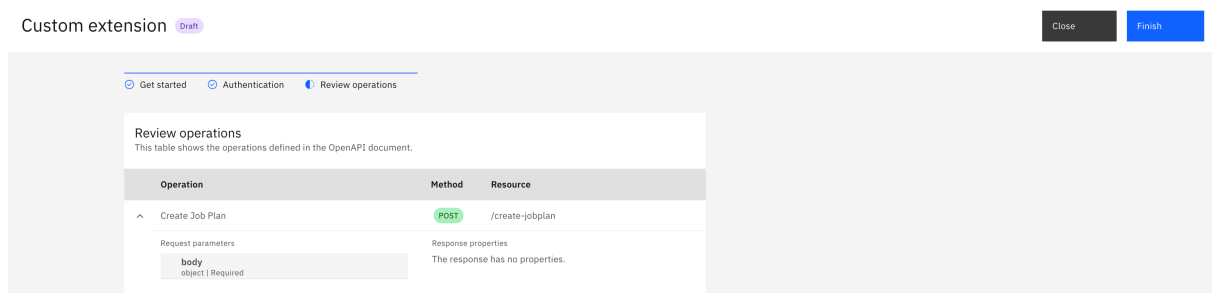Custom extension   Close   Next

⊘ Get started   ⊘ Basic information   ◑ Import OpenAPI   ⊙ Review extension

Import OpenAPI

Import an OpenAPI document in a .json format, describing the
authentication and methods for your extension.

```
Drag and drop file here or click to upload
```

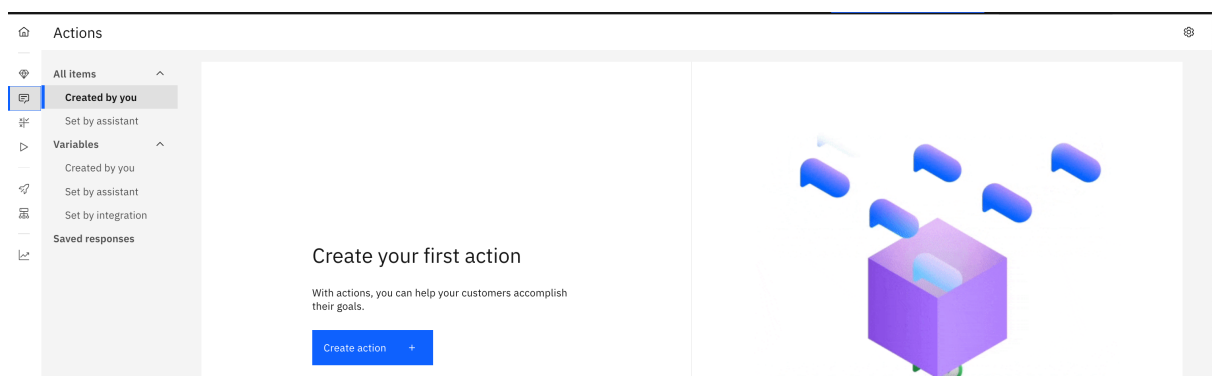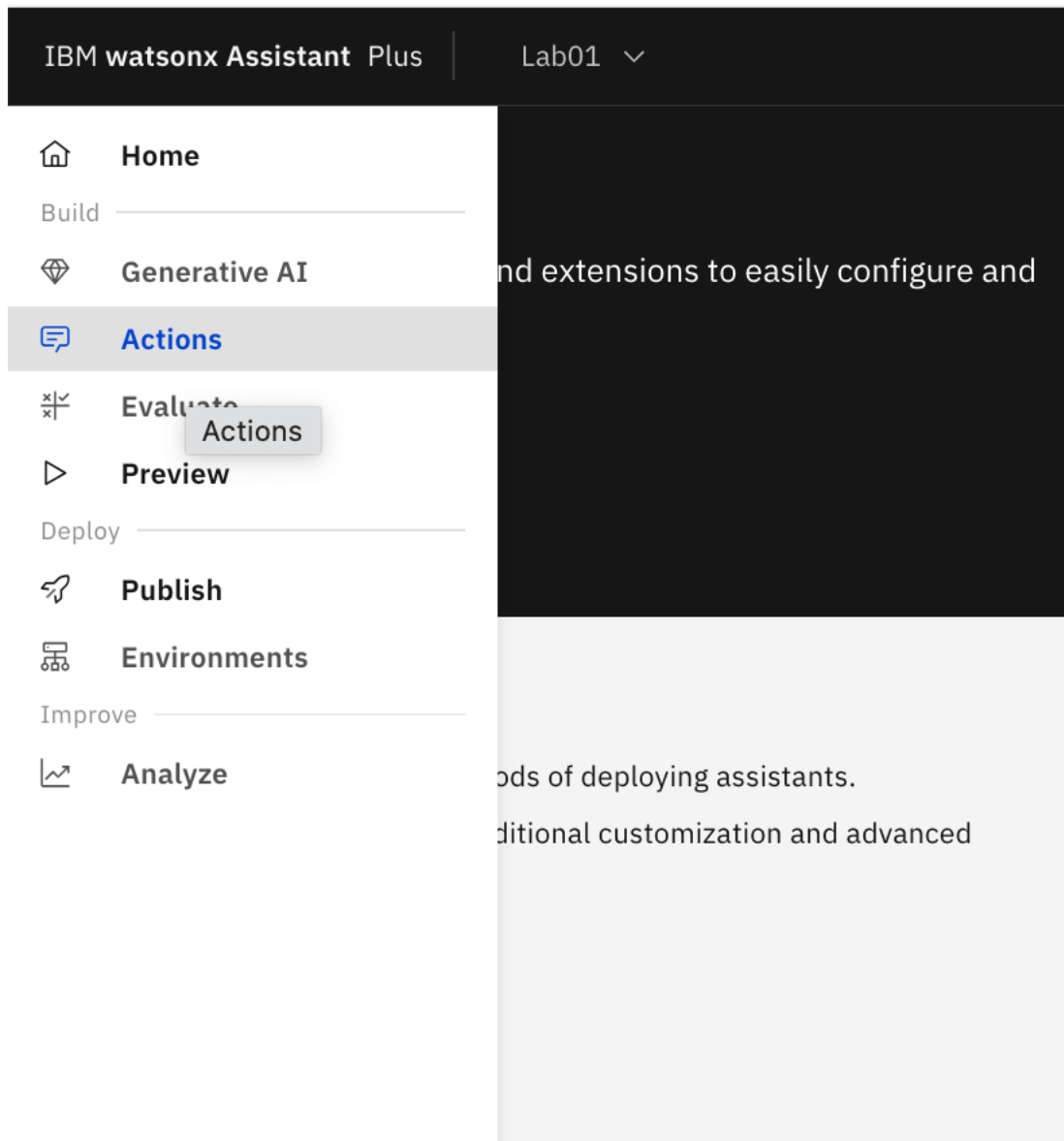| create_Jobplan.json	✕

1.17   Click Next, and Finish

1.18   Add the extension to Watsonx.assistant

1.19   Verify the server and click Next and finish
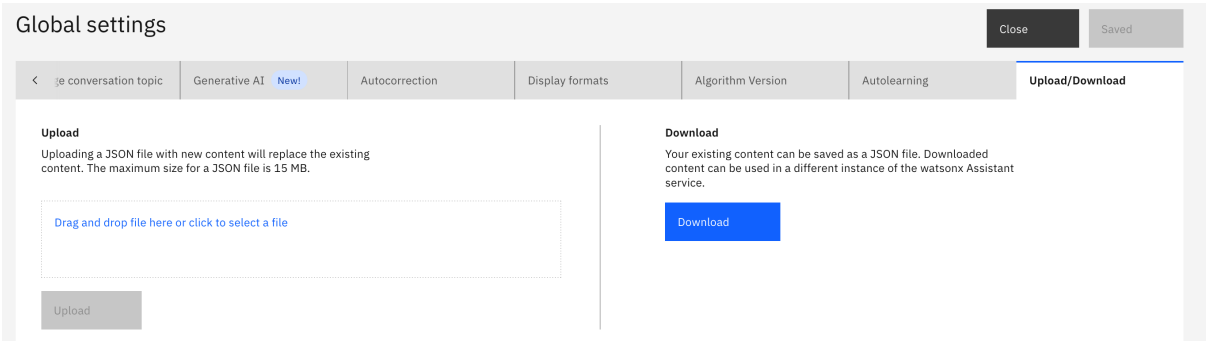

2: Import the actions

2.1 Select Actions

IBM **watsonx Assistant** Plus   Lab01 ⌄

⌂ **Home**

Build

◈ **Generative AI**

🗩 **Actions**

╪ **Eval**

▷ **Preview**

Deploy

⇗ **Publish**

品 **Environments**

Improve

⤴ **Analyze**

Actions

nd extensions to easily configure and

ods of deploying assistants.

ditional customization and advanced

Actions   ⚙

All items   ⌃
  Created by you
  Set by assistant
Variables   ⌃
  Created by you
  Set by assistant
  Set by integration
Saved responses

Create your first action

With actions, you can help your customers accomplish
their goals.

[Create action   +]

2.2 Select Global settings

Actions   [Global settings] ⚙

All items   ⌃
  Created by you
  Set by assistant
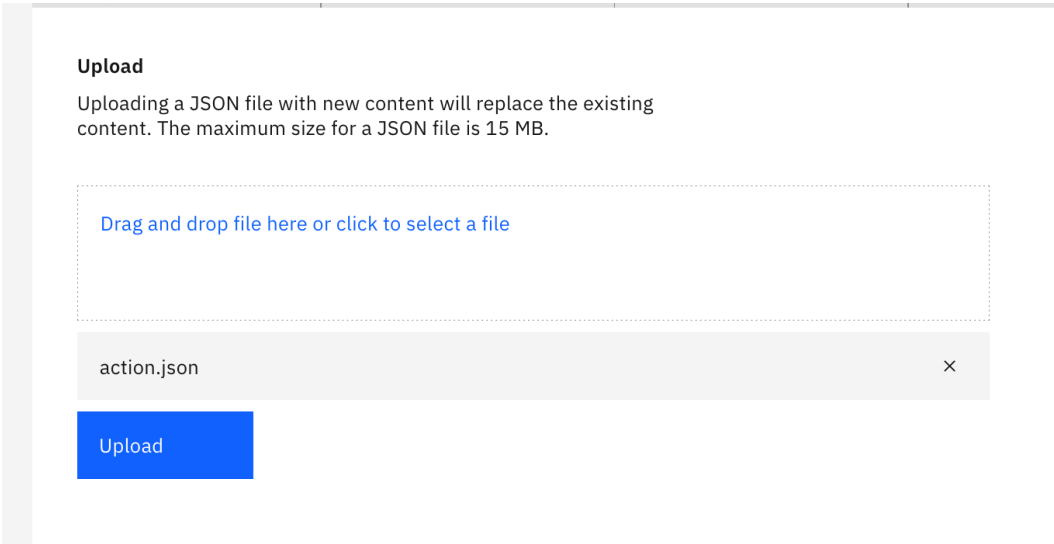Variables   ⌃

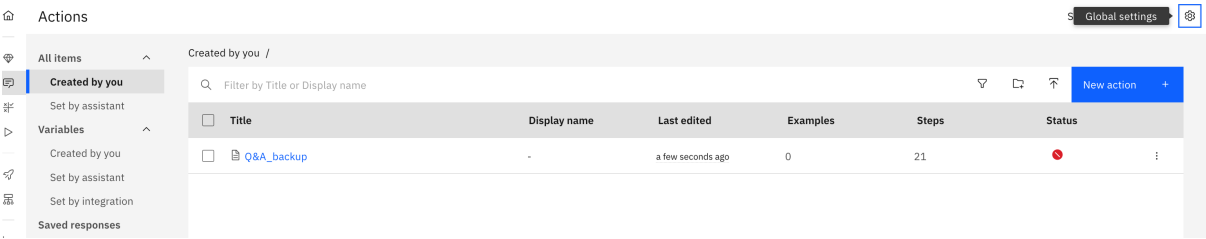## 2.3 Navigate right and select Upload/Download option

2.4 Click on Drag and drop file here option
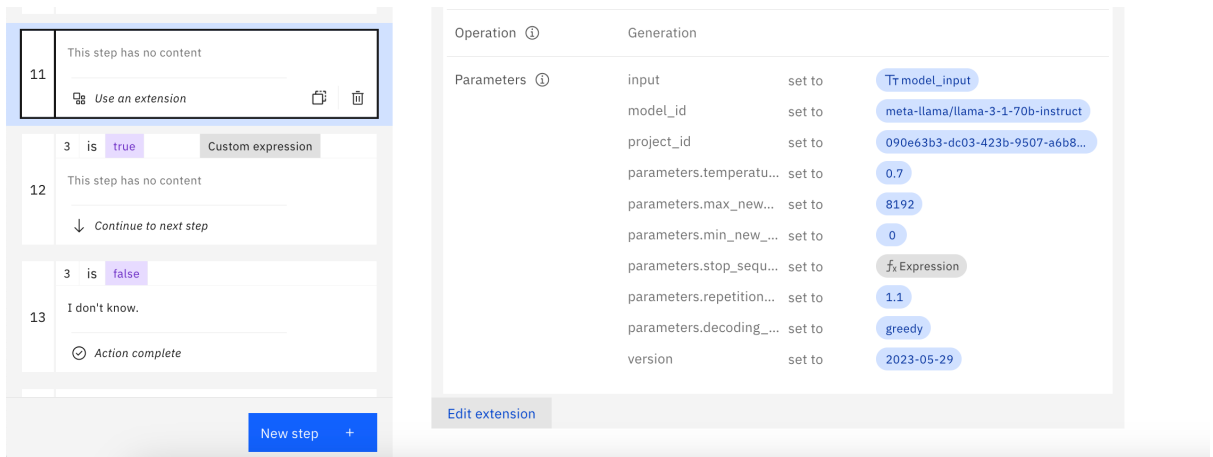## 2.5 And select actions.json file
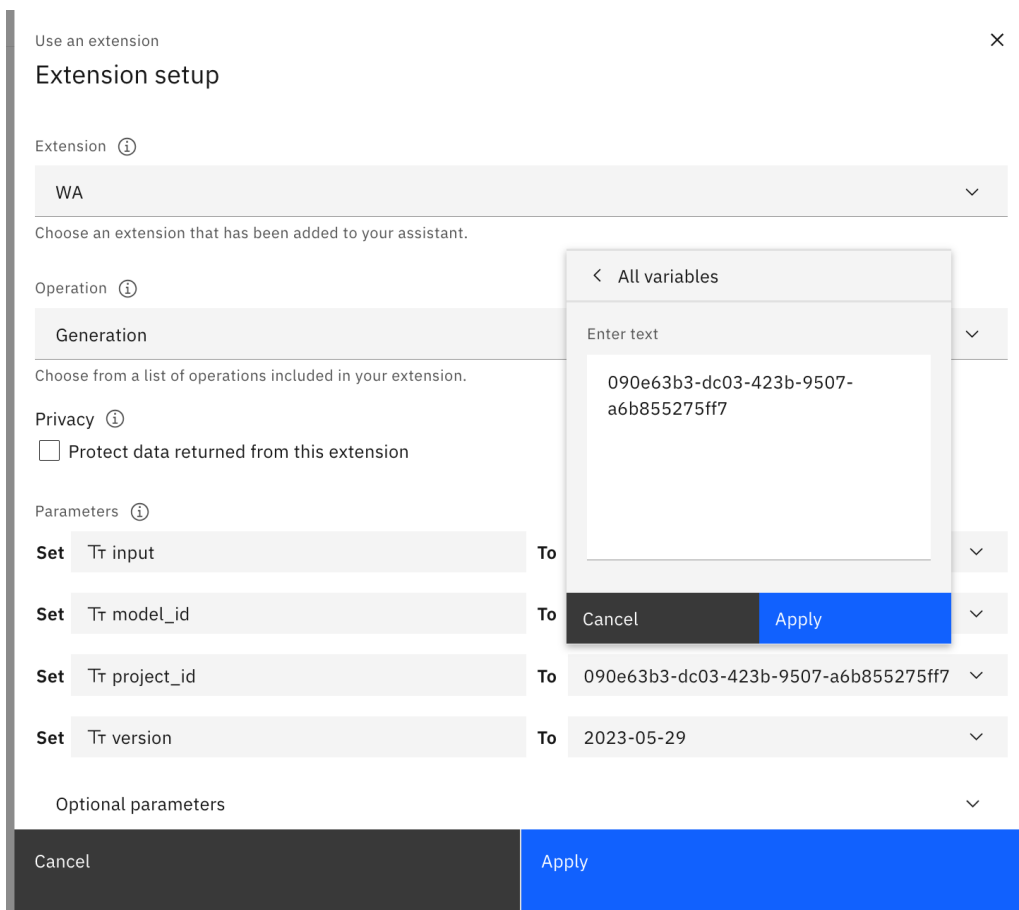

2.6 This will import the action as below
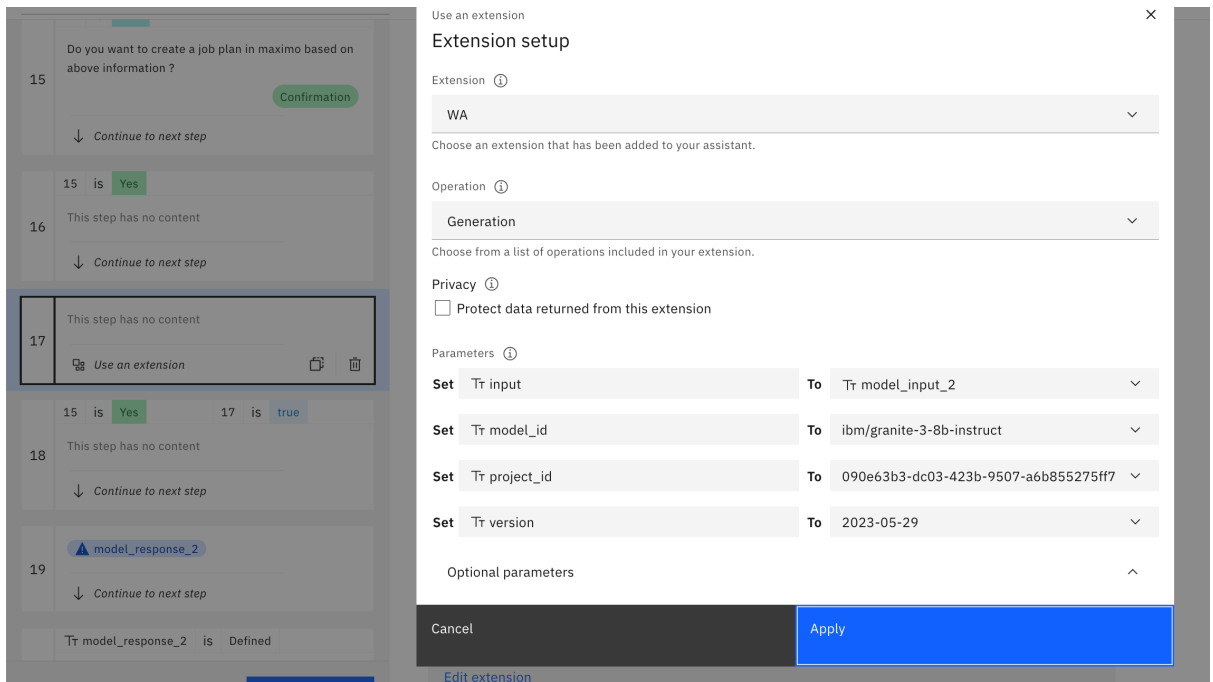

2.7 Click on Q&A_backup title
2.8 Click on step 3, and select Edit extension option

2.9 Update the project_id to the project created in Watson Discovery and select Apply.

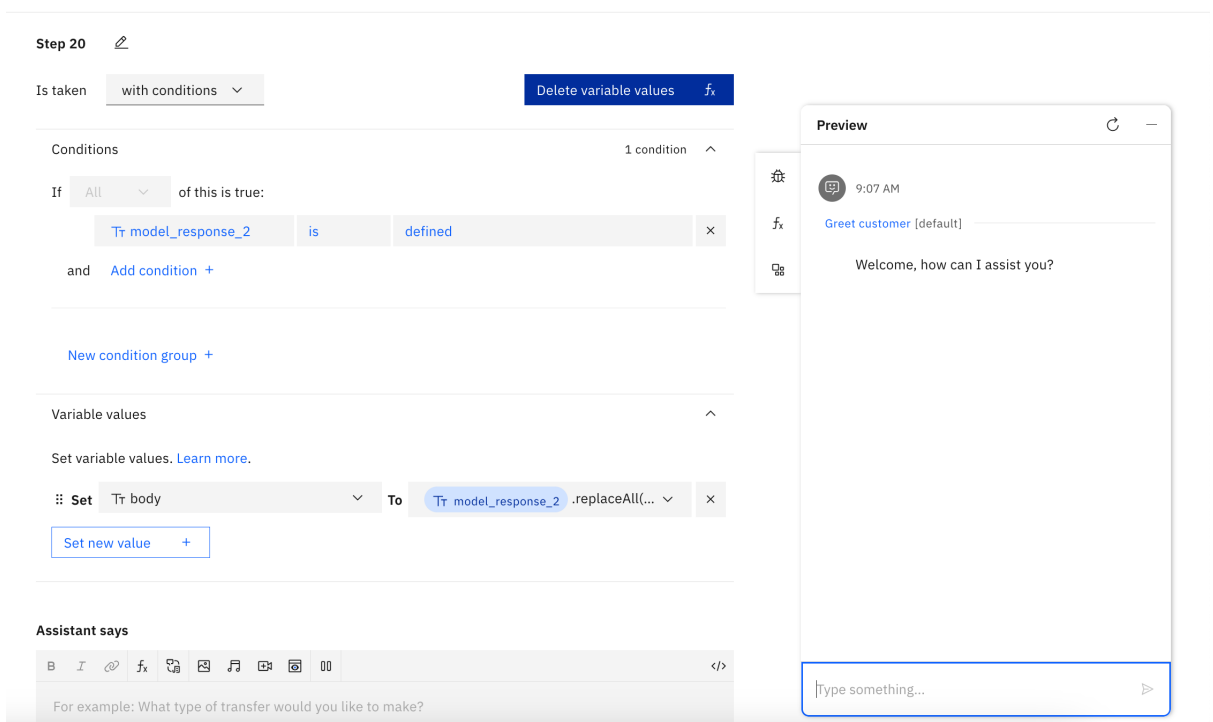**2.10** Select step 11 and click on Edit extension

2.11   Update the project_id with watsonx.ai project id and click apply.

2.12   Do the same on step 17.

2.13 Save the actions and click on Preview.

2.14 Verify the changes.