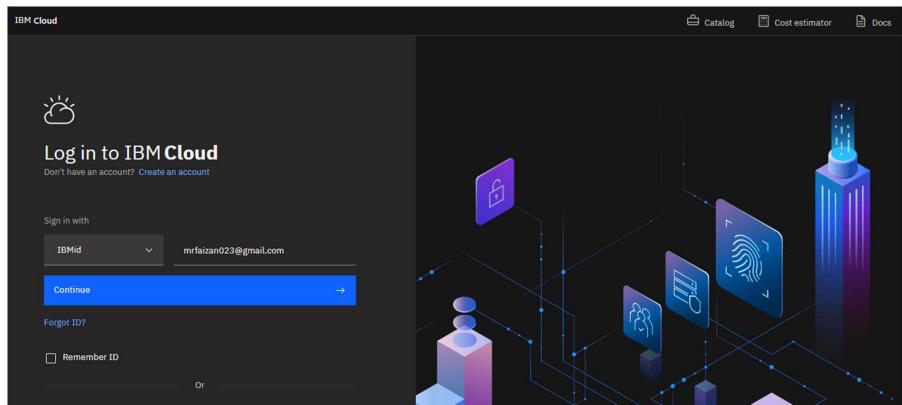


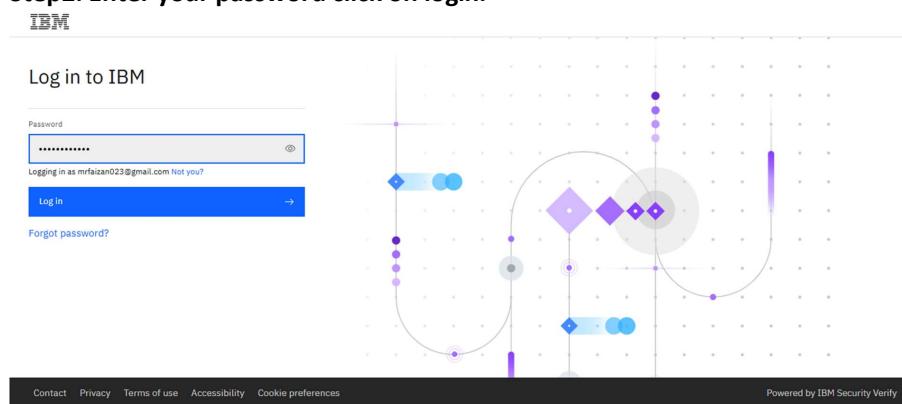
Agentic AI on IBM Cloud

Commented [A1]:

Step1: Open IBM Cloud login page using the link cloud.ibm.com, enter your Gmail and click on Continue.



Step2: Enter your password click on login.



Step3: IBM Cloud Dashboard.

The screenshot shows the IBM Cloud dashboard with a dark theme. At the top, there's a search bar and a navigation bar with links for Catalog, Manage, and account information. Below the header, there's a section titled "For you" featuring six service tiles: "Build" (Recommended), "Track emissions with Carbon Calculator" (Popular), "Use Watson Assistant" (Popular), "Build with Watson" (Popular), "Use Watson Studio" (Popular), and "IBM Watson Machine Learning" (Popular). At the bottom of the dashboard, there are sections for "IBM Cloud status", "Recent support cases", and "Planned maintenance".

The screenshot shows the Watsonx Agent configuration interface. On the left, there are tabs for Build, Setup, Configuration, Knowledge, and Tools. The Build tab is active, showing "Model: mstral-large". In the center, there's an "Agent preview" window displaying a message: "Deployment has started Your AI service deployment has started." A red box highlights the "View status" button. At the bottom, there's a search bar with the placeholder "Type something..." and a "Google search" tool under the Knowledge tab.

Step-4 Now click on the Search bar and write “Watsonx.ai Studio”.

Step3: IBM Cloud Dashboard.

The screenshot shows the IBM Cloud dashboard for the user 'Mr FAIZAN's Account'. The search bar at the top right contains the query 'watsonx.ai studio'. The main area displays 'Catalog Results' for this query, showing four items:

- watsonx.ai Studio (Service)
- watsonx (Service)
- NeuralSeek (Service)
- Cloud automation for watsonx.ai (Software)
- Watsonx.ai SaaS with Assistant and Governance (Software)

Below the catalog results, there are three featured cards:

- Build with Watson**: Chatbots, insights, recognizers, and more. Explore the AI platform for business. (Popular, 2 min)
- Use Watson Studio**: Watson Studio provides a suite of tools and a collaborative environment for data scientists, developers and domain experts. (Popular, 3 min)
- IBM Watson Machine Learning**: Deploy, monitor and optimize machine learning models quickly and easily. Leverage auto-generated APIs to infuse AI into applications. (Popular, 2 min)

At the bottom of the dashboard, there are sections for 'IBM Cloud status', 'Recent support cases', and 'Planned maintenance'.

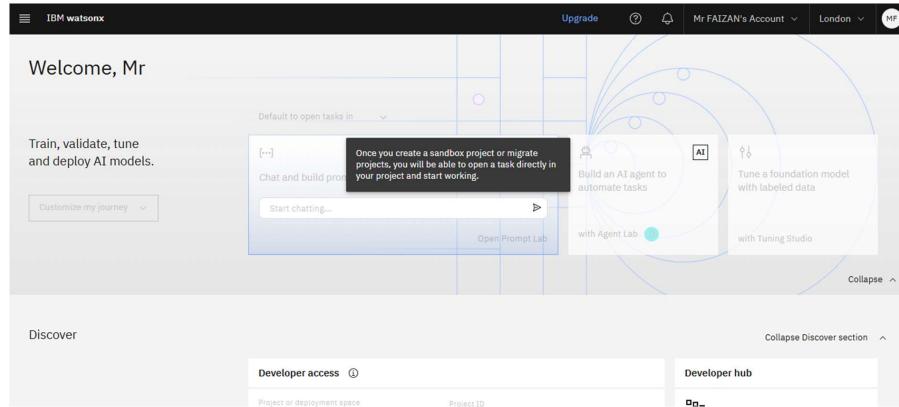
Step-5 Now select the Region as London and then click on Create.

The screenshot shows the IBM Cloud Catalog interface. On the left, there's a sidebar with 'Create' selected. The main area displays the 'watsonx.ai Studio' service. It has a summary box on the right with details like 'Location: London (eu-gb)', 'Plan: Lite', and 'Service name: watsonx.ai Studio-yb'. Below this is a checkbox for accepting license agreements. At the bottom right is a large blue 'Create' button. To the left of the summary, there's a detailed view of the service's features and pricing, including a table for 'Plan', 'Features and capabilities', and 'Pricing'.

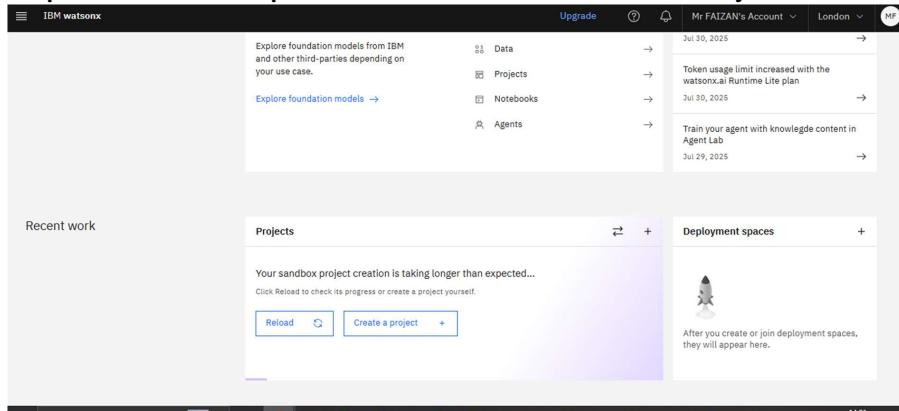
Step-6 Now click on the Dropdown and then select IBM watsonx.

The screenshot shows the IBM Cloud Resource list. A resource named 'watsonx.ai Studio-yb' is listed. The 'Actions' dropdown menu is open, and the 'IBM watsonx' option is highlighted. The main panel shows the service's details, including its integration with 'Cloud Pak for Data and watsonx', a 3D icon representing the service, and a note about it being part of the AI capability of the data fabric architecture.

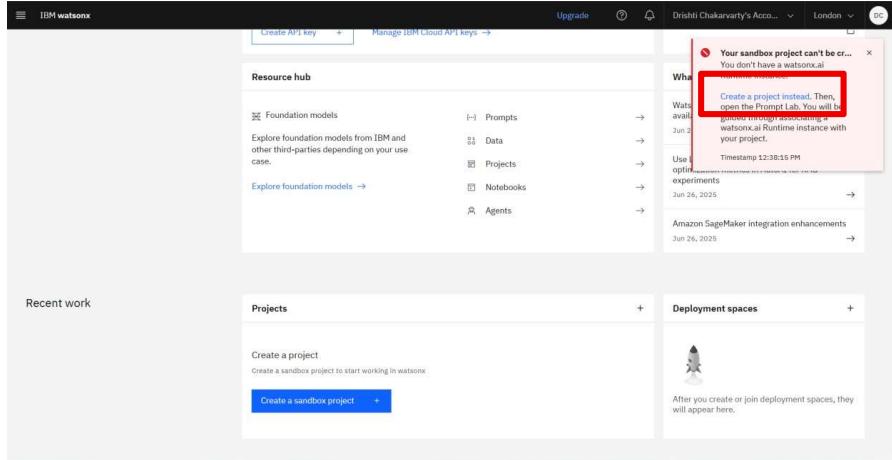
Step-7 You will be redirected to this interface.



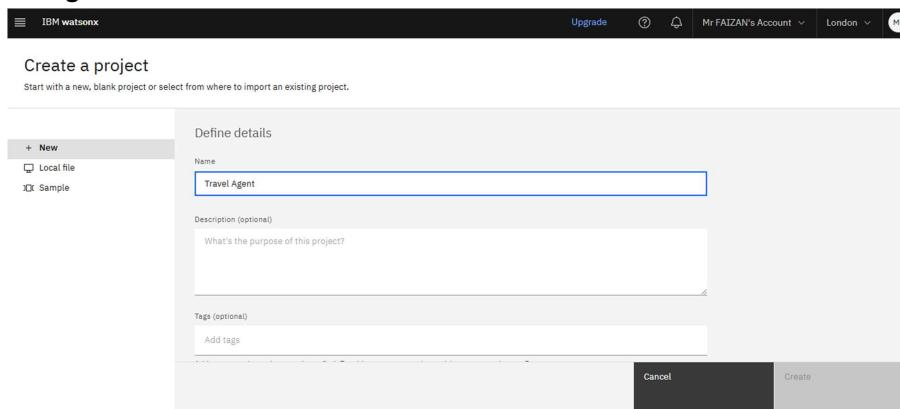
Step-8 Scroll little bit up and then click on Create a Sandbox Project.



Step-9 Now click on Create a Project instead.



Step-10 Now give the name to your project and then click on Add to add the storage.



Step-11 Now create the Cloud Object Storage, make sure to select the lite plan and then click on Create.

The screenshot shows the IBM Watsonx interface for creating a Cloud Object Storage instance. The main page displays a table of pricing plans:

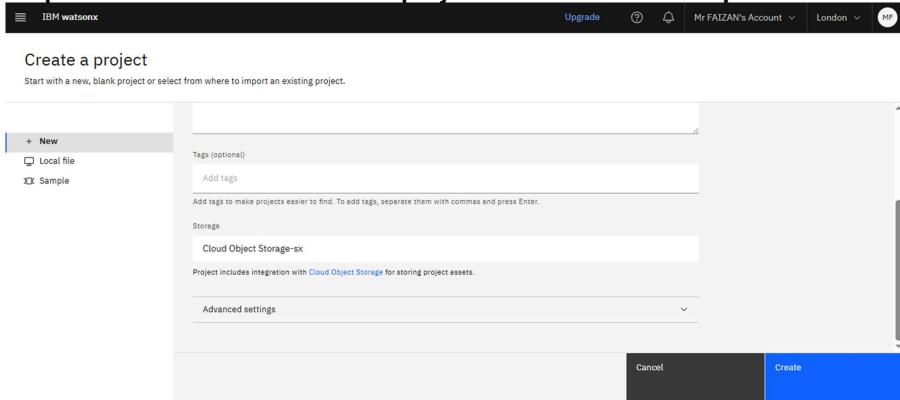
Plan	Features	Pricing
One-Rate	One-Rate Plan is a Pay-as-You-Go option with a single, flat monthly rate (\$/GB) that includes storage, API operations, retrieval, and outbound bandwidth—making it ideal for high-activity workloads with frequent access and data transfer, such as analytics, media, and web apps. The plan includes built-in allowances that scale with stored capacity and offers automatic volume discounts as usage grows.	\$10.00
Lite(deprecated)	Lite plan instance is free to use for Storage capacity up to 25 GB per month. Lite plan instance is used for trial, and can be easily upgraded to Standard plan for unlimited scalability and full functionality.	Free
None		

A modal window titled "Cloud Object Storage" is open on the right, showing the "Create" button highlighted in blue.

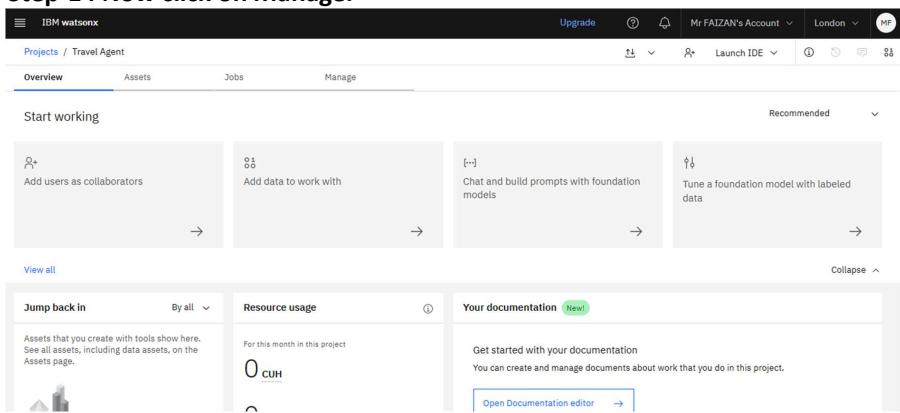
Step-12 Now click on Refresh.

The screenshot shows the IBM Watsonx interface for creating a new project. The "Create a project" section has "New" selected. Under "Select storage service", "Add" is chosen. A modal window at the bottom right shows the "Create" button highlighted in blue.

Step-13 Now click on Create. Your project has been successfully created.



Step-14 Now click on Manage.



Step-15 Click on Services & Integrations and then click on Associate Service.

The screenshot shows the IBM WatsonX interface. The top navigation bar includes 'Upgrade', 'Mr FAIZAN's Account', 'London', and a user icon. Below the navigation is a toolbar with icons for 'Overview', 'Assets', 'Jobs', and 'Manage'. The 'Manage' tab is selected, highlighted in blue. On the left, a sidebar titled 'Project' lists 'General', 'Access control', 'Environments', 'Resource usage', and 'Services & Integrations', with 'Services & Integrations' also highlighted in blue. The main content area is titled 'Services & integrations' and contains two tabs: 'IBM services' (selected) and 'Third-party integrations'. A sub-section titled 'Associate IBM Cloud services with this project to add tools, compute environments, or other capabilities.' includes a 'Learn more.' link. Below this is a search bar with 'Find services' placeholder text and a 'Associate service +' button. A table header row is visible below the search bar, with columns for 'Name', 'Service type', and others.

Step-16 Now click on New Service.

The screenshot shows the 'Associate service' dialog box. The title bar says 'Associate service' and 'Choose an existing or add a new service to associate with your project.' Below the title are two dropdown menus: 'Default' (with one item) and 'Locations' (with two items). A search bar with 'Find services' placeholder text is present. The main area is a table with columns: 'Name', 'Type', 'Plan', 'Location', 'Status', and 'Group'. A single row is visible, showing a question mark icon in the 'Name' column and a person icon in the 'Type' column. At the bottom are 'Cancel' and 'Associate' buttons.

Step-17 Now select the watsonx.ai Runtime.

The screenshot shows the IBM WatsonX interface with the search bar set to 'Associate service'. The results for 'AI / Machine Learning' are displayed. The 'watsonx.ai Runtime' service is highlighted, showing its category as 'AI / Machine Learning', sub-category as 'Analytics', and a brief description: '(Formerly known as Watson Machine Learning) Quickly build, run and manage generative AI and machine learning...'. It is listed as 'Lite + Free'.

Step-18 Click on Create.

The screenshot shows the 'Associate service' creation dialog for 'watsonx.ai Runtime'. The 'Create' button is highlighted in blue. The summary section displays the following details: Author: IBM, Date of last update: Jul 23, 2025, Docs, API Docs. The service is set to Region: London, Plan: Lite, Service name: watsonx.ai Runtime-nz, and Resource group: Default. Below the summary is a large blue 'Create' button.

Step-19 Select the created Runtime service and then click on Associate.

The screenshot shows the 'Associate service' dialog in the IBM WatsonX interface. The dialog title is 'Associate service' with the sub-instruction 'Choose an existing or add a new service to associate with your project.' Below the title, there are two tabs: 'Default' (selected) and 'Locations'. A search bar labeled 'Find services' is present. A table lists a single service: 'watsonx.ai Runtime-nz' (Type: watsonx.ai Runtime, Plan: Lite, Location: London, Status: Not associated, Group: Default). At the bottom are 'Cancel' and 'Associate' buttons, with 'Associate' being highlighted in blue.

Step-20 Now again go back to the previous tab and again click on IBM watsonx.

The screenshot shows the 'Service Details - IBM Cloud' page for 'watsonx.ai Studio-yb'. The page header includes the URL 'cloud.ibm.com/services/data-science-experience/crn%3Av1%3Abuemix%3Apublic%3Adata-science-experience%3Aeu-gb%3A%2Fa0a23b23...'. The main content area displays the service name 'watsonx.ai Studio-yb' with a green status indicator. It features a large image of a 3D cube representing the service's architecture, with labels: 'watsonx.ai Studio in Cloud Pak for Data and watsonx', 'IBM Watson AI Studio in Cloud Pak for Data and watsonx', 'IBM Cloud Pak for Data, watsonx Unifying platforms', and 'IBM Cloud Base cloud infrastructure'. Below the image, a 'Launch in' button is shown, with 'IBM Cloud Pak for Data' selected. Other options include 'IBM Watsonx' and 'Watsonx'.

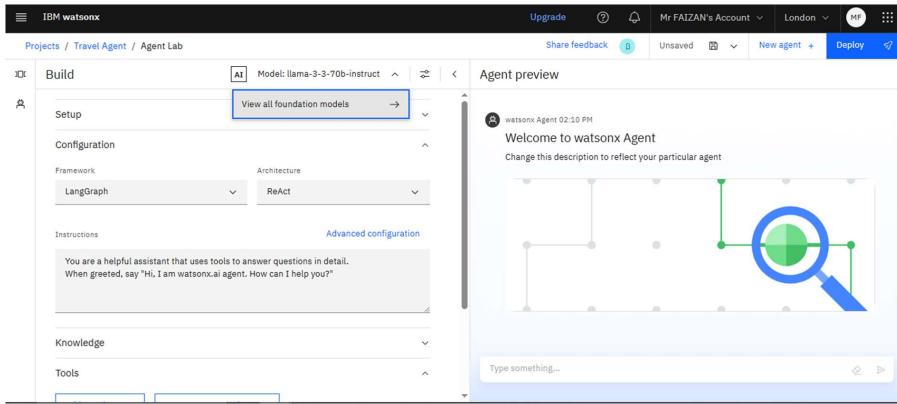
Step-21 Now click on Build AI agent to automate tasks.

The screenshot shows the IBM Watsonx interface. At the top, there's a navigation bar with 'IBM Watsonx', 'Upgrade', 'Mr FAIZAN's Account', 'London', and a profile icon. Below the navigation is a 'Welcome, Mr' message and a section titled 'Train, validate, tune and deploy AI models.' A button 'Customize my journey' is visible. The main area features a 'Discover' section with tabs for 'Developer access' and 'Developer hub'. A prominent callout box in the center says 'Build an AI agent to automate tasks with Agent Lab' and 'Tune a foundation model with labeled data with Tuning Studio'. A blue arrow points from the text 'Build an AI agent to automate tasks with Agent Lab' towards the 'Agent Lab' tab in the navigation bar below.

Step-22 This is Watsonx Agent , now change the model here

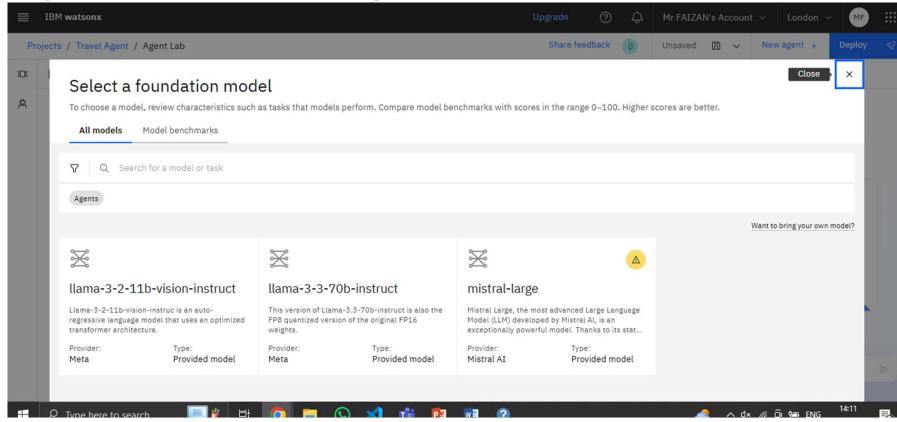
The screenshot shows the 'Agent Lab' section of the Watsonx interface. The left sidebar has tabs for 'Build', 'Setup', 'Configuration', 'Instructions', 'Knowledge', and 'Tools'. The 'Build' tab is selected, showing a dropdown for 'Model' set to 'llama-3-3-70b-instruct'. The 'Configuration' tab is expanded, showing 'Framework' options 'LangGraph' and 'ReAct'. The 'Instructions' tab contains a text box with placeholder text: 'You are a helpful assistant that uses tools to answer questions in detail. When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"'. The right side shows an 'Agent preview' window with a message from 'watsonx.Agent 02:10 PM' saying 'Welcome to watsonx Agent'. It includes a 'Change this description to reflect your particular agent' link and a large magnifying glass icon over a network graph. A text input field at the bottom says 'Type something...'. The top navigation bar includes 'Share feedback', 'Unsaved', 'New agent +', and 'Deploy' buttons.

Step-23 Click on “ View all foundation models” to change the model.



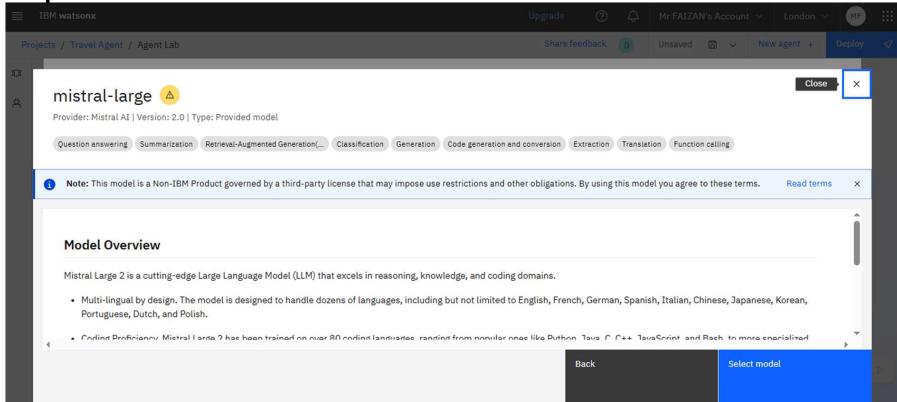
The screenshot shows the IBM Watsonx interface with the 'Agent Lab' project selected. The 'Build' tab is active. In the top right of the 'Build' panel, there is a button labeled 'View all foundation models' with a right-pointing arrow. This button is highlighted with a blue box.

Step-24 Now select mistral – large model .

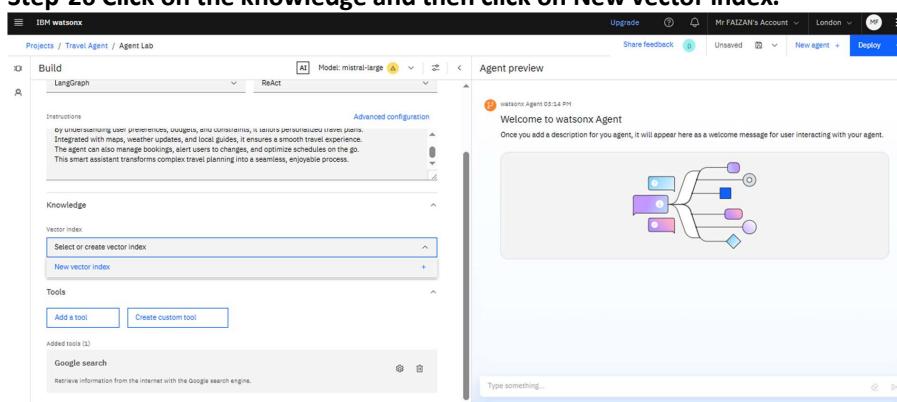


The screenshot shows a modal dialog titled 'Select a foundation model'. It lists three models: 'llama-3-2-11b-vision-instruct', 'llama-3-3-70b-instruct', and 'mistral-large'. The 'mistral-large' model is highlighted with a blue box. The dialog has a 'Close' button at the top right and a search bar at the top left.

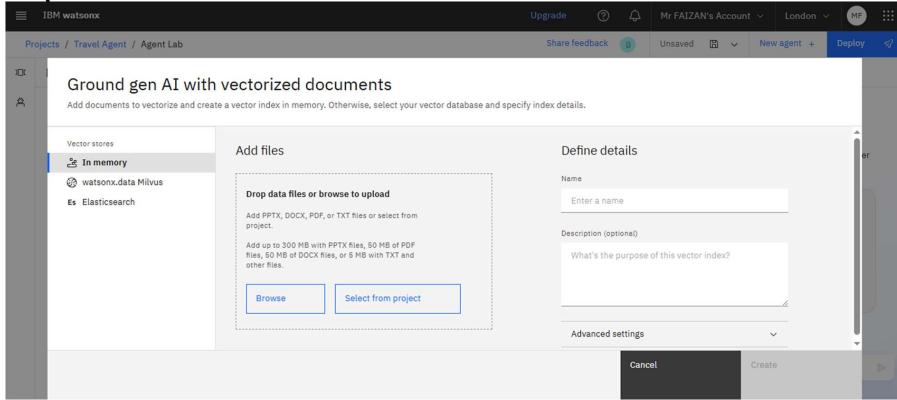
Step-25 Now click on Select model .



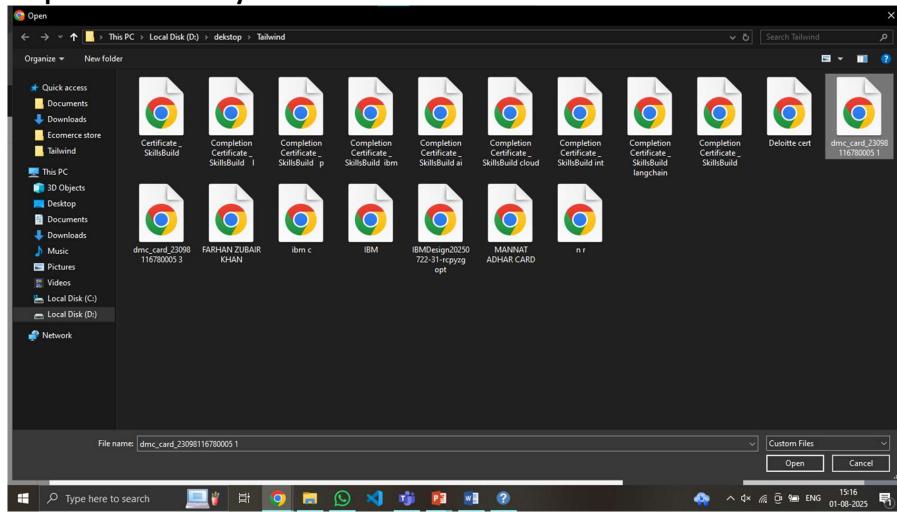
Step-26 Click on the knowledge and then click on New vector index.



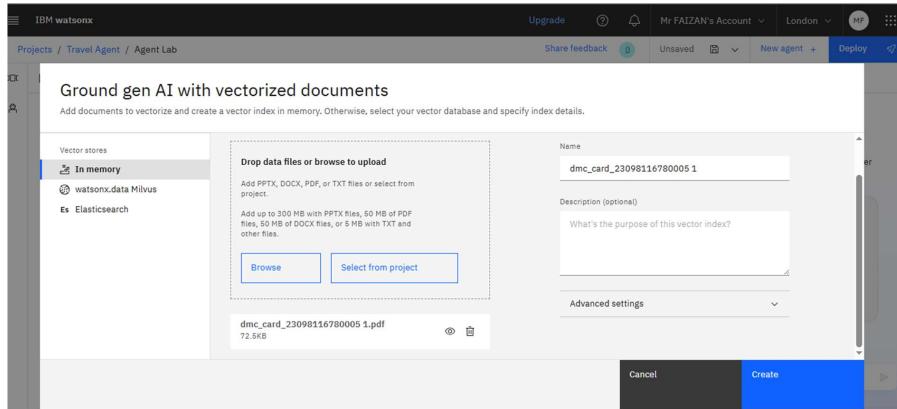
Step-27 Now click on Browse.



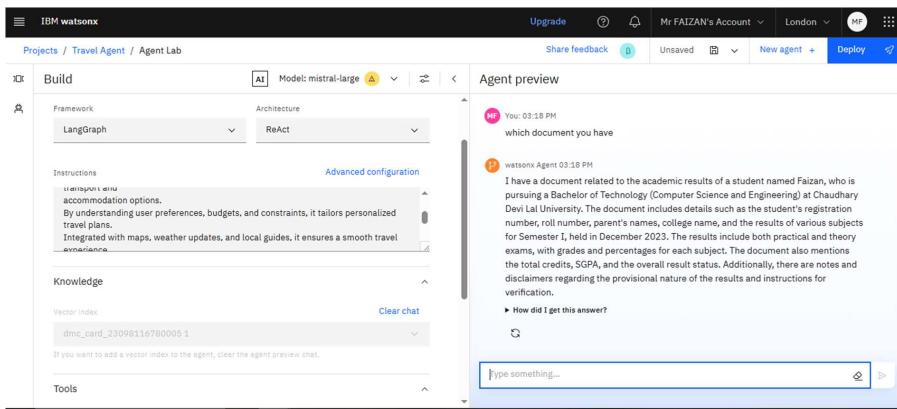
Step-28 Now select your document.



Step-29 Now click on Create.



Step-30 Now you can ask questions related to your document.



Step-31 Click on Add a tool.

The screenshot shows the IBM watsonx interface. In the top navigation bar, 'IBM watsonx' is selected. The main area is titled 'Build'. On the left, there's a 'Vector index' section with a dropdown menu showing 'dmc_card_23098116780005 1'. Below it is a 'Tools' section with 'Add a tool' and 'Create custom tool' buttons. Under 'Added tools (2)', there are two entries: 'Google search' and 'Document search - dmc_card_23098116780005 1'. To the right, the 'Agent preview' window displays a welcome message from 'watsonx Agent 03:20 PM': 'Welcome to watsonx Agent. Once you add a description for your agent, it will appear here as a welcome message for user interacting with your agent.' Below the message is a small network diagram icon and a text input field 'Type something...'. The top right of the interface has buttons for 'Share feedback', 'Unsaved', 'New agent +', and 'Deploy'.

Step-32 Enable the tools (Shown in picture)

The screenshot shows the 'Select a tool' dialog box. It has a search bar at the top labeled 'Search for a tool'. Below it is a grid of ten tool cards, each with an icon, name, and description. The tools are: Google search (enabled), DuckDuckGo search (enabled), Wikipedia search (enabled), Document search (enabled), Tavily search (disabled), Webcrawler (disabled), Python Interpreter (disabled), and Weather (enabled). Each card includes a brief description of its function.

Tool	Status	Description
Google search	Enabled	Retrieve information from the internet with the Google search engine.
DuckDuckGo search	Enabled	Retrieve information from the internet with the DuckDuckGo search engine.
Wikipedia search	Enabled	Retrieve information from Wikipedia articles.
Document search	Enabled	Search documents with vector indexes.
Tavily search	Disabled	Retrieve information from the Tavily search engine.
Webcrawler	Disabled	Retrieve information from a website.
Python Interpreter	Disabled	Execute Python code generated by the agent.
Weather	Enabled	Retrieve the weather of a city.

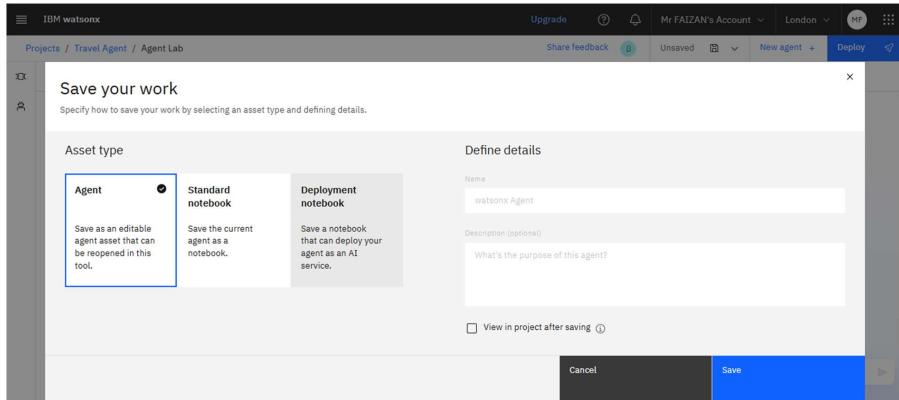
Step-33 Type here your question here. This is output

The screenshot shows the IBM WatsonX interface. On the left, there's a sidebar titled 'Build' containing several components: 'DuckDuckGo search', 'Wikipedia search', 'Document search - dmc_card_23098116780005 1', 'Webcrawler', and 'Weather'. The main area is titled 'Agent preview' and displays a welcome message from 'watsonx Agent' at 03:21 PM. It includes a small network diagram icon and a text input field with placeholder 'Type something...'. The top navigation bar includes 'Upgrade', 'Share feedback', 'Unsaved', 'New agent +', and 'Deploy' buttons.

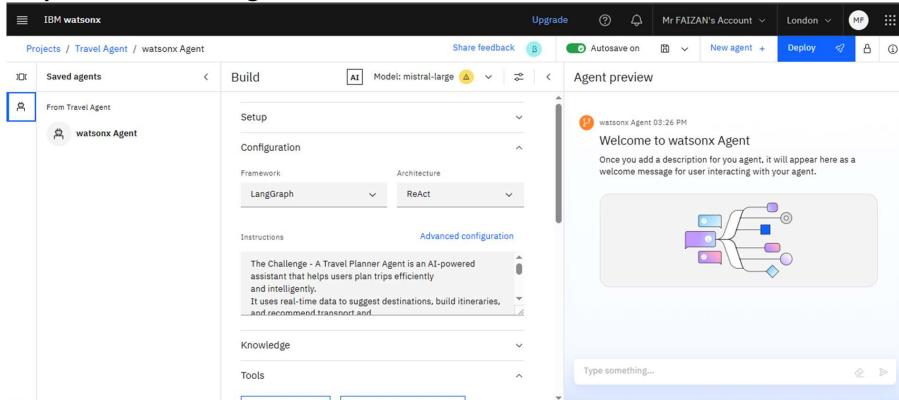
Step-34 Click on Save as icon .

This screenshot is similar to the previous one but includes a 'Save as' button in the top right corner of the 'Agent preview' panel. The rest of the interface and content are identical to the previous step's screenshot.

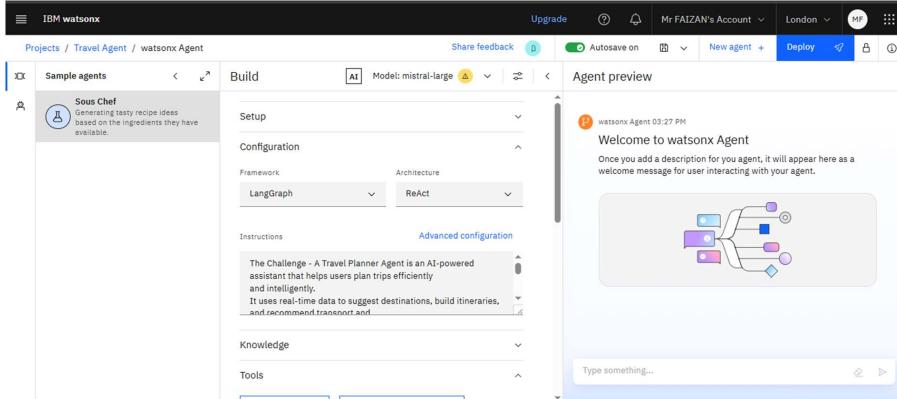
Step-35 Save your work, choose Agent , click on save



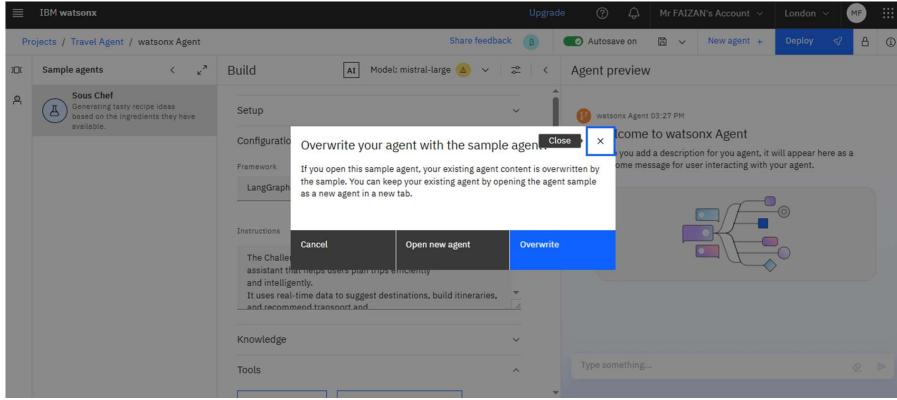
Step-36 Your saved agents are available here



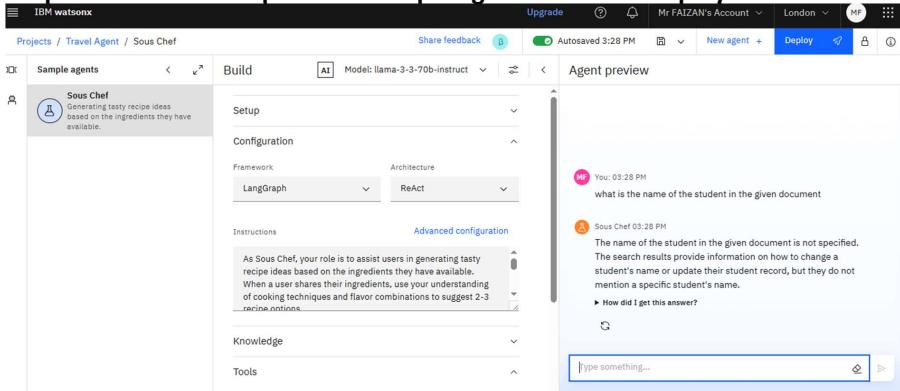
Step-37 Here sample agents are available



Step-38 Click on sample agents and click on overwrite

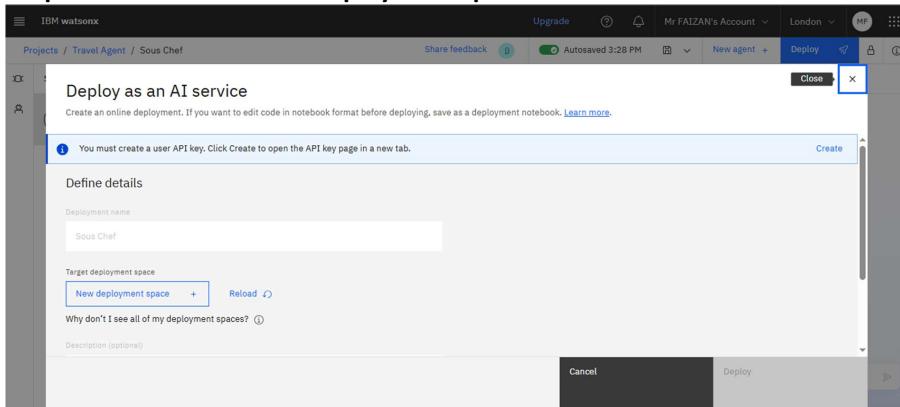


Step-39 This is the output from sample agent & click on Deploy.



The screenshot shows the IBM WatsonX interface with the 'Agent preview' tab selected. On the left, there's a sidebar with sections for Sample agents, Build, Configuration, Instructions, Knowledge, and Tools. The 'Build' section shows 'Model: llama-3-3-70b-instruct'. The 'Configuration' section has 'Framework' set to LangGraph and 'Architecture' set to React. The 'Instructions' section contains a detailed description of the agent's role. The 'Knowledge' and 'Tools' sections are collapsed. On the right, the 'Agent preview' window displays a conversation between a user ('You') and the agent ('Sous Chef'). The user asks about a student's name, and the agent provides a general response about updating student records. Below the preview is a text input field with the placeholder 'Type something...'.

Step-40 Now click on New Deployment Space.



The screenshot shows a modal dialog titled 'Deploy as an AI service'. It contains a message: 'You must create a user API key. Click Create to open the API key page in a new tab.' Below this is a 'Create' button. The main area is titled 'Define details' and includes a 'Deployment name' field set to 'Sous Chef', a 'Target deployment space' section with a 'New deployment space' button, and a 'Description (optional)' field. At the bottom are 'Cancel' and 'Deploy' buttons.

Note: If you are unable to create the new deployment space then delete the previous deployment space using the following steps

1. Go to the previous tab and then click on IBM watsonx.

The screenshot shows the IBM Cloud interface with the URL <https://cloud.ibm.com>. A specific resource, "watsonx.ai Studio-gr", is selected. The "Manage" tab is active. On the left, there's a sidebar with "Plan" and "Manage" sections. The main content area displays the "watsonx.ai Studio in Cloud Pak for Data and watsonx" card. It includes a diagram showing the architecture: "IBM Watsonx AI Studio" on top, "IBM Cloud Pak for Data, watsonx" in the middle, and "IBM Cloud Base cloud infrastructure" at the bottom. Below the diagram, it says "IBM Watsonx AI Studio is part of IBM Cloud Pak for Data and Watsonx, and serves as the AI capability of the data fabric architecture." There are "Launch in" buttons for "IBM Cloud Pak for Data" and "IBM Watsonx", with the "IBM Watsonx" button highlighted by a red box. Below these buttons are "Helpful links" for "Documentation", "Learning path", and "Videos".

2. Click on the Hamburger on the left hand side and then click on View all deployment spaces.

The screenshot shows the IBM Watsonx interface with the URL <https://eu-gb.ml.cloud.ibm.com>. The left sidebar has a "Filter navigation" dropdown and several sections: Home, Data, Projects, Deployment spaces (which is expanded and has a red box around "View all deployment spaces"), AI service apps, Resource hub, Administration, and Support. The main content area has a "Discover" section with cards for "Chat and build prompts with foundation models" (with "Open Prompt Lab" button), "Build an AI agent to automate tasks" (with "with Agent Lab" button), and "Tune a foundation model with labeled data" (with "with Tuning Studio" button). Below this is a "Developer access" section with "Project or deployment space" set to "00000000-0000-0000-0000-00000000000C" and "watsonx.ai URL" set to "<https://eu-gb.ml.cloud.ibm.com>". To the right is a "Developer hub" section with instructions for starting coding fast and making API requests.

3. Click on the already created deployment space.

The screenshot shows the 'Deployment spaces' section of the IBM Watsonx interface. A single deployment space named 'Hosting' is listed. The 'Spaces' tab is selected. The table columns include Name, Last modified, Your role, Collaborators, Tags, Type, Online deployments, and Jobs. The 'Hosting' row is highlighted with a red box around its name. The 'Jobs' column for this space shows 1 online deployment and 0 jobs.

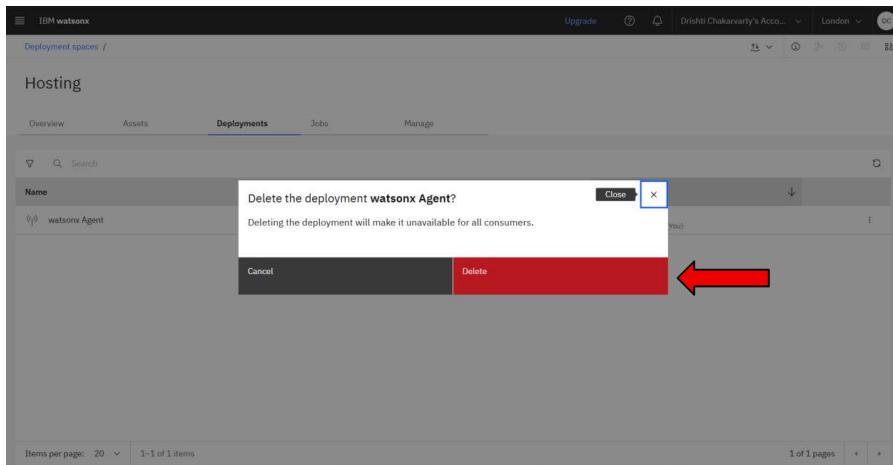
Name	Last modified	Your role	Collaborators	Tags	Type	Online deployments	Jobs
Hosting	Jul 2, 2025, 11:53 AM	Admin	dc	Watsonx Agent	Development	1	0

4. Click on Deployments and then delete the previously deployed agent.

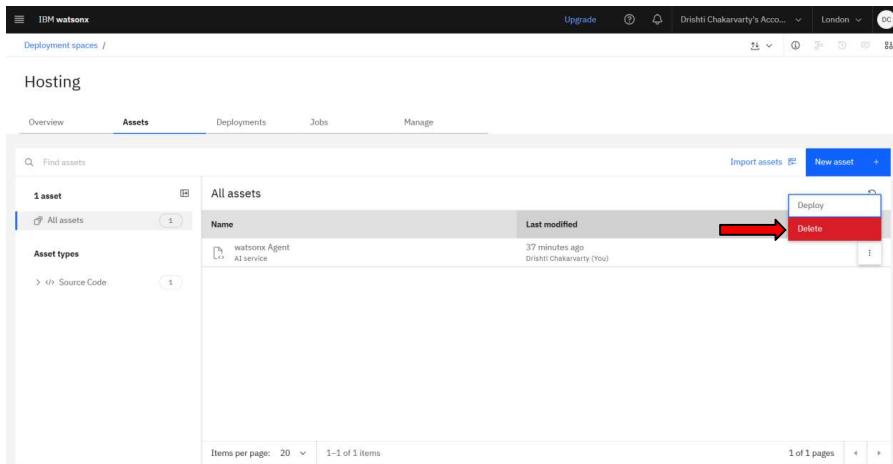
The screenshot shows the 'Deployment' page for the 'Hosting' deployment space. The 'Deployments' tab is selected. A single deployment entry for 'Watsonx Agent' is listed. The 'Edit' and 'Delete' buttons are visible in a context menu next to the entry. A red arrow points to the 'Delete' button.

Name	Type	Status	Asset	Asset type	Tags	Last modified
Watsonx Agent	Online	Deployed	Watsonx Agent	Ai service	Watsonx Agent	37 minutes ago Drishti Chakravarthy (You)

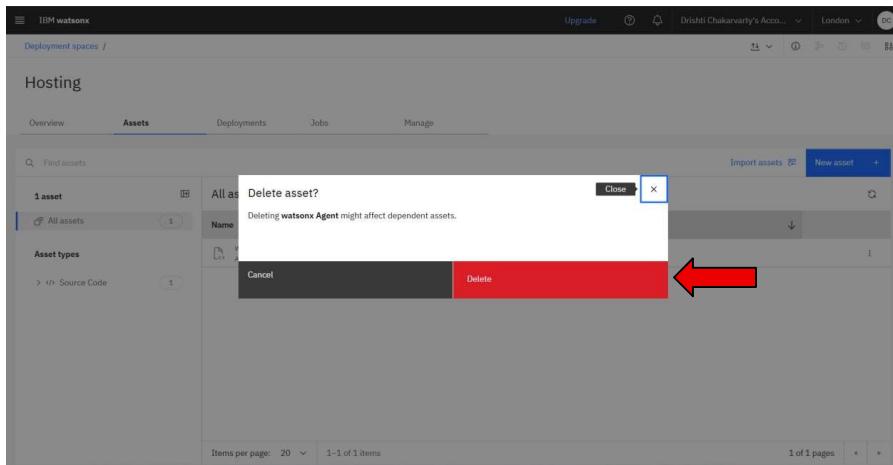
5. Click on Delete.



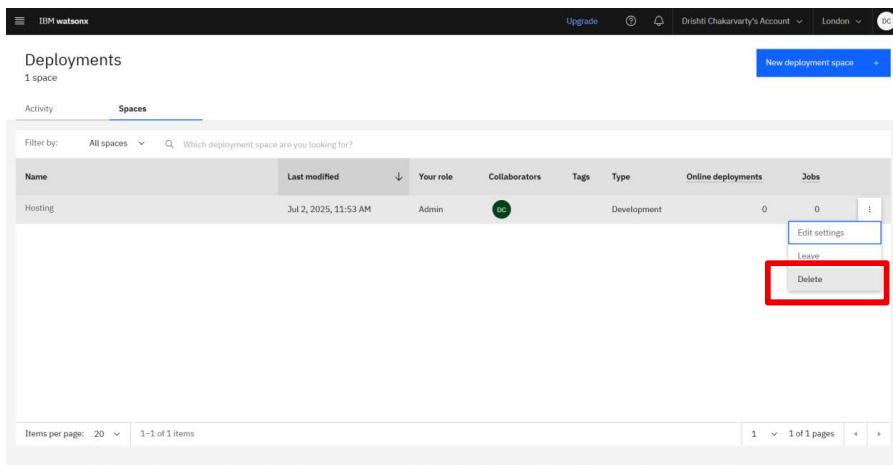
6. Now click on Assets and delete the previously created asset.



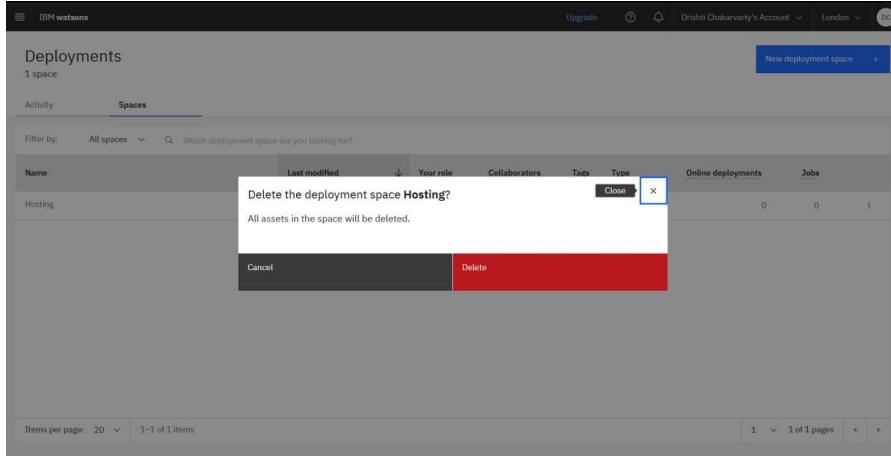
7. Click on Delete.



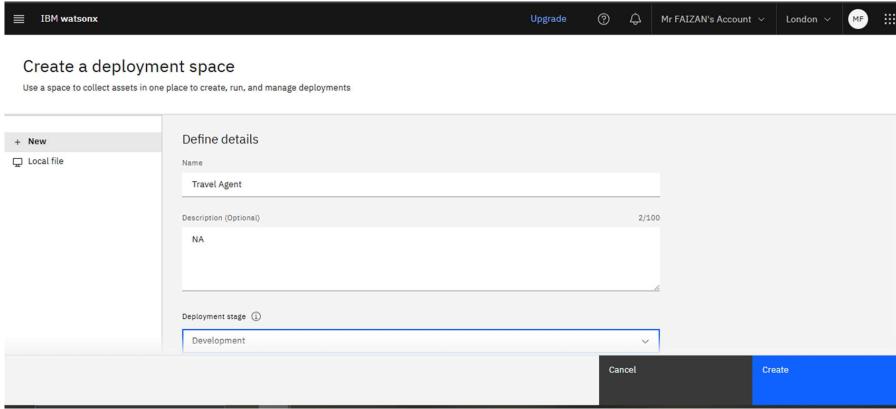
8. Now at the end Delete the previously created deployment space.



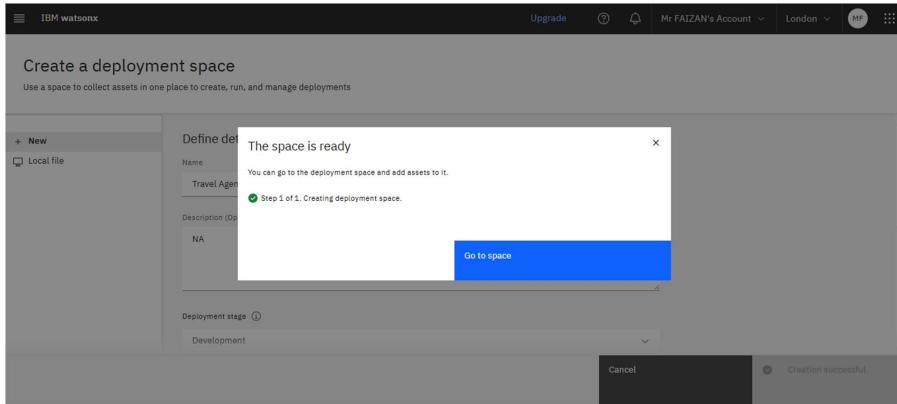
9. Click on Delete.



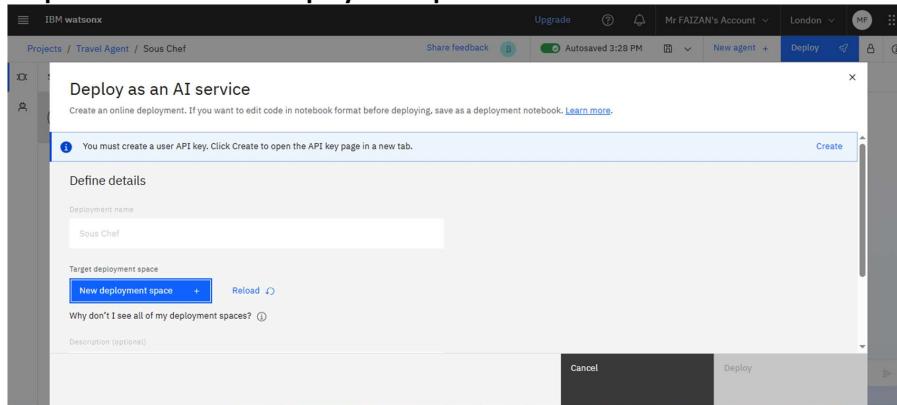
Step-41 Now give the name to your deployment space and then click on Create.



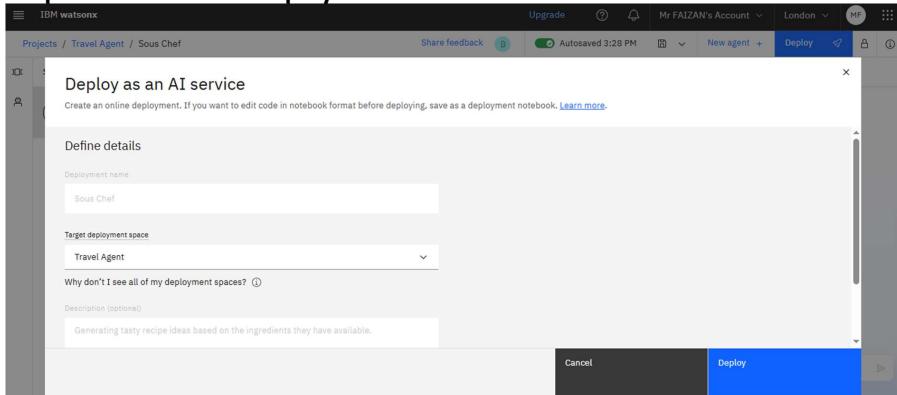
Step-42 You will get a pop-up displaying The space is ready.



Step-43 Go back to the Deployment space and the click on Reload.



Step-44 Now click on Deploy.



Step-46 You can see that your agent is successfully deployed, now click on watsonx Agent.

Step-47 You can see the API references for your

The screenshot shows the IBM WatsonX interface. At the top, there's a navigation bar with 'IBM WatsonX', 'Upgrade', 'Mr FAIZAN's Account', 'London', and a user icon. Below the navigation is a breadcrumb trail: 'Deployment spaces / Travel Agent / Sous Chef /'. The main content area is titled 'Sous Chef' with a status of 'Deployed Online'. There are three tabs: 'API reference' (selected), 'Test', and 'Preview'. Under 'API reference', there's a section for 'Endpoints for inferencing' with two sections: 'Private endpoint' and 'Public endpoint', each listing several URLs. To the right, a sidebar titled 'About this deployment' provides details like Name ('Sous Chef'), Description ('Generating tasty recipe ideas based on the ingredients they have available.'), Deployment Details (Deployment ID: 'fa9abdc1-09d1-4416-9ede-5bea90a25dcc/ai_81'), and Tags ('wx-agent').

Step-48 Now you can click on Preview and ask questions to your agent.

The screenshot shows the 'Preview' tab of the 'Sous Chef' deployment. It features a chat interface. A user message at the top says 'You 03:44 PM give travel plan to goa'. Below it, an AI agent response says 'Sous Chef 03:44 PM To plan a trip to Goa, you can follow these steps:'. It then lists four steps: 1. Book your flights and accommodation in North or South Goa. 2. Rent a scooter or car for travel. 3. Explore the beaches, forts, churches, and other tourist attractions in Goa. 4. Consider visiting during the monsoon season for activities like waterfall hiking, cliff jumping, and wild swimming. At the bottom, there's a text input field with 'Type something...' and a send button.

