



## Hands-on Lab: Creating a watsonx.ai Project with Jupyter Notebooks

**Duration:** 20 mins

### Objective(s):

After completing this lab, you will be able to-

- Setup watsonx.ai service on IBM Cloud
- Create project in watsonx.ai
- Add an interactive Python notebook to a project in watsonx.ai

You will then proceed to next part of this lab instructions which will guide you on how to work with Jupyter Notebooks.

### Pre-requisite(s):

You need an IBM Cloud account to work with Jupyter labs in watsonx.ai. If you don't have an account created already, click and open this [link](#) and follow the instructions, to create an IBM Cloud account.

### Task 1: For New Users (with no watsonx.ai service):

*If you have created a watsonx.ai service before, proceed to Task 2:*

1. [Click here](#) to go to the IBM Cloud watsonx.ai page.
2. To create a watsonx.ai service, choose a region that offers Lite plan, then choose the Lite plan from the list and click **Create**. In the image below, the **Lite** plan is chosen for “Dallas” region.

A screenshot of the IBM Cloud watsonx.ai Studio creation page. The top navigation bar includes 'IBM Cloud', a search bar, and various account management icons. The main area is titled 'watsonx.ai Studio' and describes it as 'Formerly known as Watson Studio'. It shows the service is 'Free' and located in 'Dallas (us-south)'. The 'Create' tab is selected. On the left, there's a sidebar with 'Type Service', 'Provider IBM', 'Last updated 02/06/2025', 'Category AI / Machine Learning', 'Compliance HIPAA Enabled IAM-enabled', and 'Location Sydney (au-syd), Frankfurt (eu-de), London (eu-gb), Tokyo (jp-tok), Dallas (us-south)'. The main form has a 'Select a location' dropdown set to 'Dallas (us-south)' with a red box around it. Below it is a 'Select a pricing plan' section with a note about tax and location. A table shows the 'Plan' (Lite), 'Features and capabilities' (1 authorized user, 10 capacity unit-hours monthly limit, etc.), and 'Pricing' (Free). A red box highlights the 'Lite' plan row. To the right is a 'Summary' panel with service details and a 'Create' button at the bottom, which has a red box around it. There's also a checkbox for accepting license agreements and a 'Add to estimate' button.

3. On the watsonx.ai page, click on **Launch in IBM watsonx**.

watsonx.ai Studio-6h

Active Add tags

Details Actions

**Manage**

Plan

watsonx.ai Studio in Cloud Pak for Data and watsonx

Build and deploy machine learning models on either platform. Work with foundation models on watsonx as a Service.

Launch in

- IBM Cloud Pak for Data
- IBM Watsonx**

Helpful links

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.

IBM Watsonx.ai Studio in Cloud Pak for Data and watsonx

IBM Cloud Pak for Data, watsonx Unifying platforms

IBM Cloud Base cloud infrastructure

## Task 2: For Existing Users (who already have Watsonx Service):

1. Go to the IBM Resources List

[Resources List](#)

2. When you click on AI / Machine Learning, all your existing services will be shown under the list. Click the **watsonx.ai Studio** service you created:

Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
watsonx.ai Studio-6h	Default	Dallas (us-south)	watsonx.ai Studio	Active	-

Compute (0)  
Containers (0)  
Networking (0)  
Storage (0)  
Converged infrastructure (0)  
Enterprise applications (0)  
AI / Machine Learning (1)  
watsonx.ai Studio-6h  
Analytics (0)  
Blockchain (0)  
Databases (0)

3. On the watsonx.ai page, click on **Launch in IBM Watsonx**.

watsonx.ai Studio-6h

Active Add tags

Details Actions

**Manage**

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## Task 3: Creating a new project

1. IBM Watsonx.ai homepage appears as follows.

Train, deploy, validate, and govern AI models responsibly.

Open in: IBMSkills's sandbox

Chat and build prompts with foundation models

Start chatting... Open Prompt Lab

Build an AI agent to automate tasks with Agent Lab β

Tune a foundation model with labeled data with Tuning Studio

Discover

Developer access ⓘ

Developer hub

2. Scroll down and click on the plus sign to create a new project.

depending on your use case.

Explore foundation models →

Projects →

Notebooks →

Agents →

Integrate an existing hosted deployment of IBM OpenPages with Watsonx,governance

Feb 13, 2024 →

Desktop models converted from eskit

Recent work

Projects +

IBMSkills's sandbox 4 d ago

AI use cases

Get started with governance

Deployment spaces +

After you create or join spaces, they will appear here.

3. On the Create project page, enter Project Name and Description.

Create a project

Start with a new, blank project or select from where to import an existing project.

+ New

Local file Sample

Define details

Name Data Science project

Description (optional) Data Science project

Tags (optional)

Cancel Create

4. After creating the project you can start with either a new blank project or select a file from an existing project to import.

## Task 4: Adding Jupyter Notebook to watsonx.ai Project

1. On the project **Overview** page, you will notice several options to get started with the project. Change the filter from **Recommended** to **Work with Models** to explore more projects.

The screenshot shows the 'Start working' section with four cards:

- Add users as collaborators
- Add data to work with
- Chat and build prompts with foundation models
- Tune a foundation model with labeled data

A dropdown menu on the right is open, showing the following options under 'Recommended':

- Recommended
- Prepare data for AI
- Work with models** (highlighted with a red box)
- Automate model lifecycl...
- View all

2. Click on **Work with data and models in Python or R Notebooks**.

The 'Work with models' filter is selected, and the 'Start working' section now includes:

- Build an AI agent to automate tasks
- Build machine learning or RAG solutions automatically
- Chat and build prompts with foundation models
- Tune a foundation model with labeled data
- Build models as a visual flow
- Evaluate and compare prompts
- Work with data and models in Python or R notebooks** (highlighted with a red box)
- Solve optimization problems

**OR**

Alternatively, you can click on **Assets** tab and then click **New asset**. Now click on **Work with data and models in Python or R Notebooks**.

The 'Assets' tab is selected. The 'All assets' section shows:

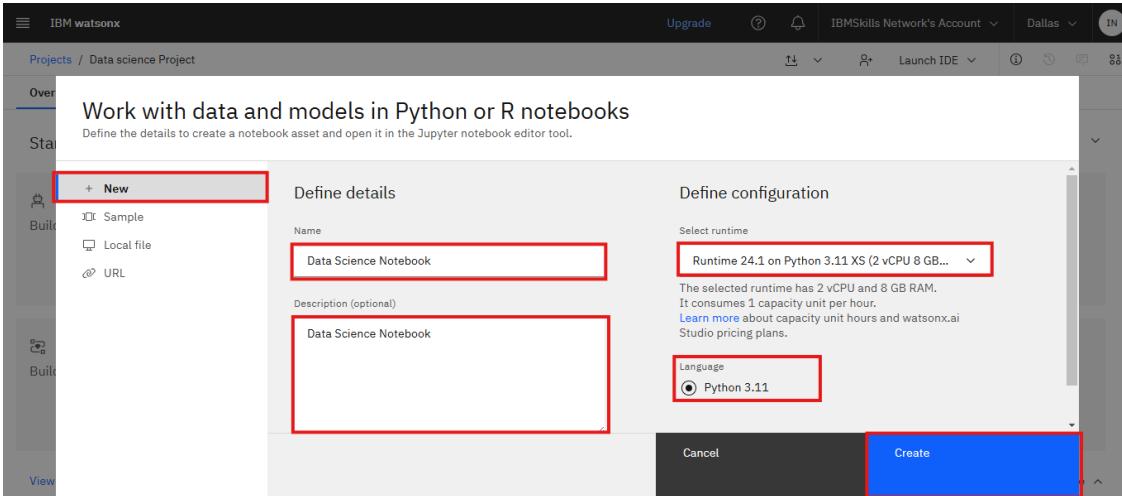
- 0 asset
- All assets (button highlighted with a red box)
- Asset types
- After you create assets, they are organized by asset type.

At the top right, there are 'Import assets' and 'New asset' buttons, with 'New asset' also highlighted with a red box.

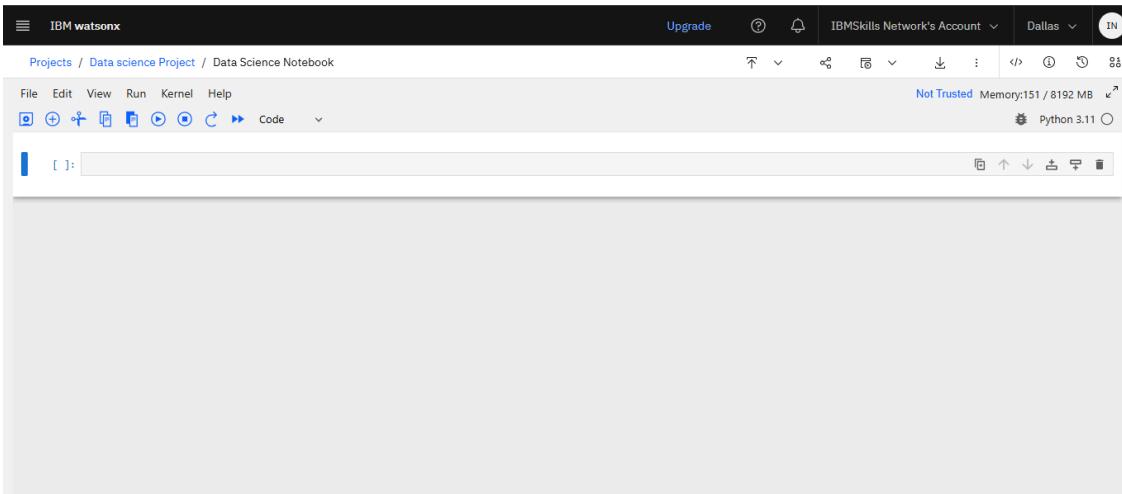
2. On the **Work with data and models in Python or R Notebooks** page

- Select **New** to add a blank new Jupyter notebook to your project

- Enter a name and optional description for the notebook
- Specify the language as **Python** or **R** depending on the type of environment you are working for your project. In this lab, we are choosing the Runtime as **Python**.
- Click **Create**.



- Wait until the notebook appears. It will take few mins to initiate Jupyter kernel.
- Now you are ready to code with a new blank Jupyter Notebook. You can observe that a blank cell (rendered as 'Code') is already added.



This concludes this tutorial.

## Author(s)

Romeo

