Hands-on Lab : Getting Started with Watson Studio

Estimated time needed: 20 minutes

IBM Watson Studio provides you with the environment and tools to solve problems by collaboratively working with data. You can choose the tools you need to analyze and visualize data, to cleanse and shape data, to ingest streaming data, or to create and train machine learning models.

Pre-requisite

You need an IBM Cloud account to create a project in Watson Studio. If you don't have an account created already, click and open this link and follow the instructions, to create an IBM Cloud account.

Objectives

After completing this lab, you will be able to:

- Use Watson Studio service
- Create project in Watson Studio
- Add an interactive python notebook to a project in Watson Studio

Exercise 1: Exercise - Create a project on Watson Studio

If you have not created a Watson service before proceed with Task 1, otherwise go to Task 2

Task 1: For New Users (with no Watson service):

1. Click here to go to the IBM Cloud Watson Studio page. To create a Watson service, choose a plan you want to use, click **Create**. In the image below, the *Lite* plan has been chosen.

≡   IBM **Cloud**   Search resources and offerings...   🔍   Cat

Catalog / Services /

Watson Studio

Author: IBM • **Date of last update:** 12/06/2020 • Docs

| **Create** | About |

Select a region

Select a region

Dallas

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

| Plan | Features | Pricing |

Lite

1 authorized user

50 capacity unit-hours monthly limit

Environment = # of capacity units required per hour

- 1 vCPU + 4 GB RAM = 0.5
- 2 vCPU + 8 GB RAM = 1
- 4 vCPU + 16 GB RAM = 2
- Decision Optimization = Environment + 5

Free

The Lite plan for Watson Studio offers everything you need to become a better data scientist or domain exp

Lite plan services are deleted after 30 days of inactivity.

2. On the Watson Studio page, click on **Get Started.**

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

1. Go to the IBM Cloud Dashboard and click Services.

IBM **Cloud**

Search resources and offerings...

Dashboard ⌄

Resource summary   View all

6

Resources

Services   ✅ 5

Storage   ✅ 1

View all (2)...

News   View all

Coca-Cola European Partners Signs a
Multiyear Agreement with IBM to Accelerate
its Strategic Transformation Journey with...

Daimler Expands Relationship with IBM;
Adopts IBM public cloud for its security
capabilities

Wipro and IBM Collaborate to Help Clients

Recent support cases   View all

Use

Ent
dire

E

https://cloud.ibm.com/resources?groups=resource-instance

2. When you click on Services, all your existing services will be shown in the list. Click the Watson Studio service you created:

☰   IBM **Cloud**   Search resources and offerings...   🔍   Cat

Resource list

⌄ **Name**	↑ **Group**	**Location**
🔍 Filter by name or IP address...	Filter by group or org... ⌄	Filter...

⌄ **Devices** (0)

⌄ **VPC infrastructure** (0)

⌄ **Clusters** (0)

⌄ **Cloud Foundry apps** (0)

⌄ **Cloud Foundry services** (0)

⌃ **Services** (5)

    ⚙ Analytics Engine-8h   Default   London

    🔍 Discovery-h0   Default   Dallas

Machine Learning-6r	Default	Dallas
Visual Recognition-wm	Default	Dallas
Watson Studio-qo	Default	Dallas

∨ **Storage** (1)

∨ **Network** (0)

∨ **Cloud Foundry enterprise environments** (0)

3. On the Watson Studio page, click on **Get Started.**

IBM **Cloud**

Search resources and offerings...

Cat

Resource list /

Watson Studio-qo   ✅ Active   Add tags ✏️

Manage

Plan

Wat

Welcome to W

Documentation

From getting started to how to's — see what's available.

Exercise 2: Creating a Project

In this exercise, you will create a project.

1. On the IBM Cloud Pak for Data welcome page, click **Create a project**.

Work with data

Create a project for your team to prepare data, find insights, or build models.

Create a project

2. Click **Create an empty project**.

← **Back**

Create a project

Choose whether to create an empty project or to preload your project with data and analytical assets. Add collaborators and data, and then choose the right tools to accomplish your goals. Add services as necessary.

Create an empty project

Add the data you want to prepare, analyze, or model. Choose tools based on how you want to work: write code, create a flow on a graphical canvas, or automatically build models.

NEW AutoAI experiment tool: Fully automated approach to building a classification or reg...

USE TO

Prepare and visualize data
Analyze data in notebooks
Train models

---

3. Provide a **Project Name** and **Description** and click **Add** on Select storage service if no storage service appears. <u>If a storage appears, proceed to step 6 directly</u>.

IBM **Cloud Pak for Data**

New project

Define project details

Name

Capstone Project

Description

Project description

Define storage

① Select storage service

Add

Add an object storage instance, and then return to this page and click Refresh.

② **Refresh**

---

4. You will be redirected to a new page. On the **Create** tab, select **Lite** plan. Then click **Create**.

5. Now you will be redirected to the previous new project page. Click **Refresh**.
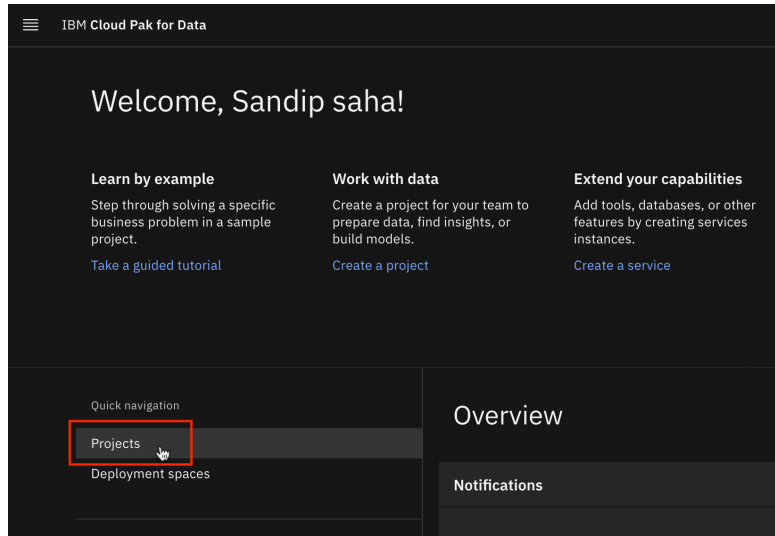

6. Once you see a storage service, click **Create**.

7. You have successfully created a project. Click **IBM Cloud Pak for Data** at the top left to go back to homepage.
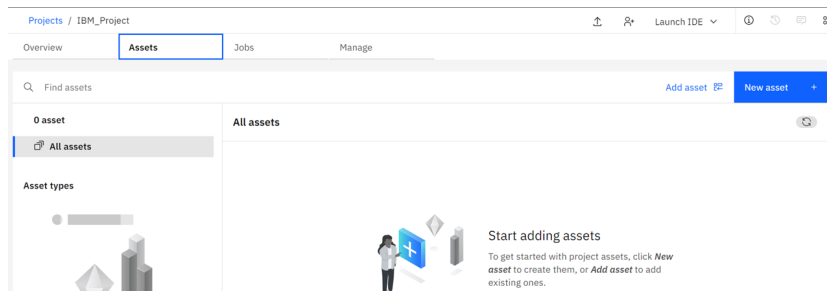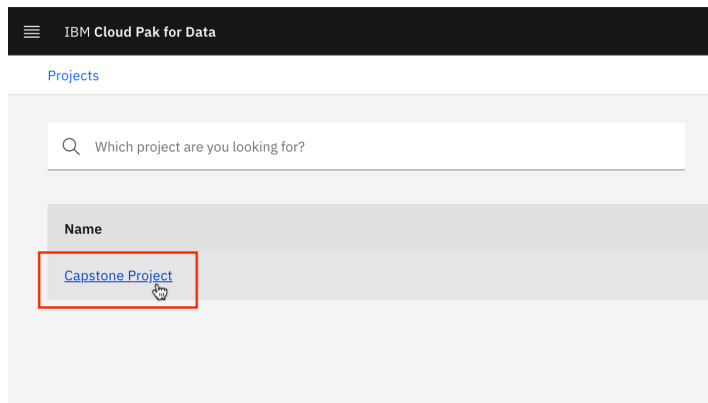

Exercise 3: Adding a Jupyter Notebook to the Project

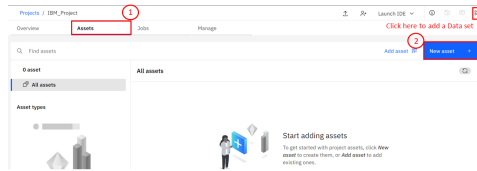In this exercise, you will add an IPYNB Jupyter notebook to the Project you created.

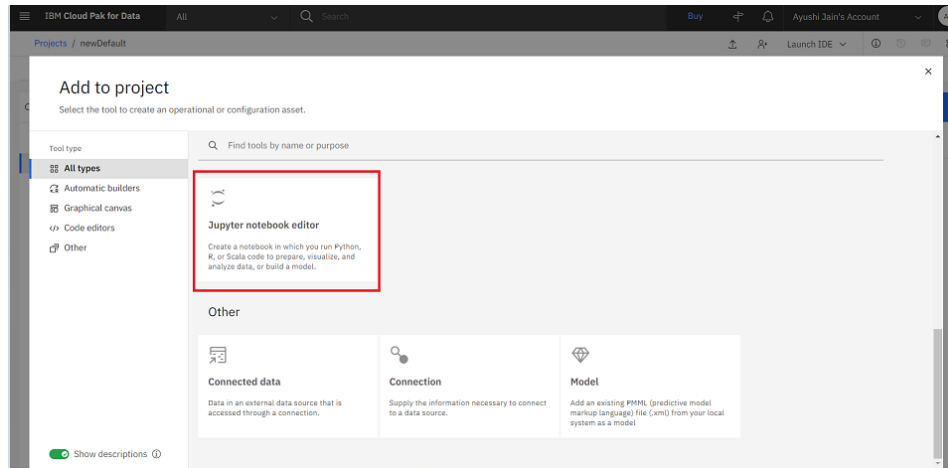1. From IBM Cloud Pak for Data homepage, click **Projects** under Quick navigation.

2. Select the project you created earlier.

3. On the **Overview** page of project, click **New asset**.

4. Select **Notebook**.

5. Right-click on this <u>Link</u> and copy the link address of the sample Jupyter notebook.

Under **From URL** tab, name the Notebook as **Sample Jupyter Notebook**. Then paste the link of the sample Jupyter notebook to **Notebook URL** you just copied.

New notebook

Blank   From file   **From URL**

Name

Final_Assignment

Description (optional)

Type your description here

Select runtime

IBM Runtime 22.1 on Python 3.9 XXS (1 vCPU 4 GB RAM)   ⌄

The selected runtime has 1 vCPU and 4 GB RAM.
It consumes 0.5 capacity units per hour.
Learn more about capacity unit hours and Watson Studio pricing plans.

Notebook URL

https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA

Cancel   Create

6. Wait until the notebook gets uploaded and become ready.

82%

Instantiating runtime for Sample Jupyter Notebook
The selected runtime has 4 vCPU and 16 GB RAM.
It consumes 2 capacity units per hour.
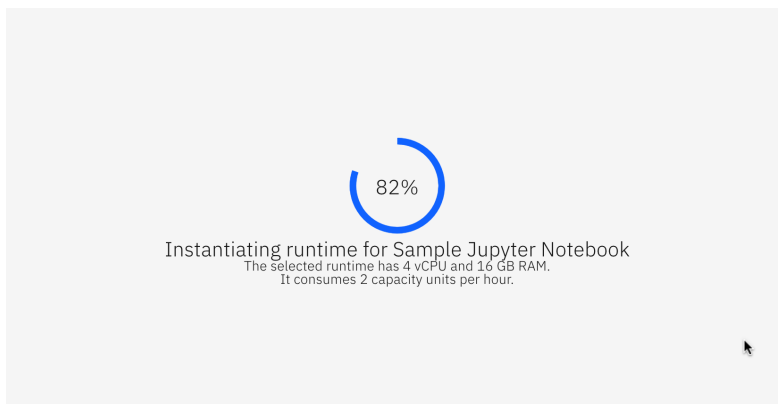
7. You have successfully added a Jupyter Notebook to the Project and opened it using Watson Studio. To share the notebook using permalink, click on the **Share** icon.

8. Click on the **toggle button** to turn on "Share with anyone who has the link". Select **All content, including code** from Cell content. Click on the **copy link** icon to copy the "Permalink to view notebook" and share the link if you need to share your work on the notebook. This link always points to the most recent saved version of the notebook.

Share: Sample Jupyter Notebook   ✕

Share a read-only view of this notebook.

Share with anyone who has the link.

⬤

Cell content

◯ Only text and output

◯ All content excluding sensitive code cells

⦿ All content, including code

ⓘ If your notebook includes credentials for data sources, you might want to remove such sensitive data from the notebook or hide it (see option 2). A version is saved for your notebook. The link always points to the most recent version of the notebook.

Permalink to view notebook

https://eu-gb.dataplatform.cloud.ibm.com/analytics/notebooks/v2/1ead203a-35f3-4b80-a218-f88e8f625bc8/view

Copied!

Share on social media.

𝕏 in

Close

Congratulations! You have completed this Lab.

Author

- [Sandip Saha Joy](#)

Other Contributor(s)

-

Changelog

Date	Version	Changed by	Change Description
2022-04-05	1.1	Malika Singla	Updated screenshot
2020-10-23	1.0	Sandip Saha Joy	Initial version created