



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...

[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](#)

Displayed prices do not include tax. Monthly prices shown are for country or region. [United States](#)

Plan

Features

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

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

Lite plan services are deleted after 30 days of inactivity.

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

IBM Cloud

Search resources and offerings...

Q

Catalog

Docs

Support

Manage

Ayushi Jain's Account

[Resource list](#) /

Watson Studio-xs

Active


Add tags

Details

Actions...

Manage

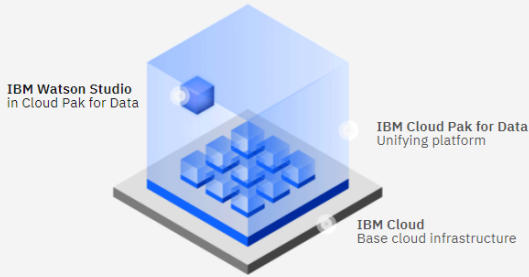
Plan



Watson Studio in Cloud Pak for Data

Watson Studio is one of the core services in Cloud Pak for Data as a Service. Build, deploy and manage AI models, and optimize decisions on IBM Cloud Pak for Data.

Launch in IBM Cloud Pak for Data



IBM Watson Studio in Cloud Pak for Data

IBM Cloud Pak for Data Unifying platform

IBM Cloud Base cloud infrastructure

IBM Watson Studio is part of IBM Cloud Pak for Data and serves as the data science capability of the data fabric architecture.

Helpful links

Documentation

Learn about tools, features, and how to perform a wide variety of Data and AI tasks.

Learning path

Start a step-by-step tutorial to get up and running quickly.

Videos

Watch videos to learn about Watson Studio and Cloud Pak for Data as a Service.

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

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



Dashboard

Resource summary

6

Resources

[Services](#)

[Storage](#)

[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

<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:



vm



Resource list

▼ Name



Group

▼ Devices (0)






▼ VPC infrastructure (0)

▼ Clusters (0)

▼ Cloud Foundry apps (0)

▼ Cloud Foundry services (0)

^ Services (5)

	Analytics Engine-8h	Default
	Discovery-h0	Default
	Machine Learning-6r	Default
	Visual Recognition-wm	Default
	Watson Studio-qo	Default
✓	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...

[Resource list](#) /

Watson Studio-qo



Active

Add tags 

Manage

Plan

Documentation

From getting started to how to's — see what's a

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. If a storage appears, proceed to step 6 directly.

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**.

 IBM Cloud Pak for Data

 Sandip Saha Joy's Account

S3

[Services catalog](#) /

 Cloud Object Storage


Author: IBM • Date of last update: Sep 23, 2020 • [Docs](#) • [API Docs](#)

Create

About

Pricing plan

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

Plan	Features	Pricing
Lite	1 COS Service Instance Storage up to 25 GB/month Up to 2,000 Class A (PUT, COPY, POST, and LIST) requests per month Up to 20,000 Class B (GET and all others) requests per month Up to 10 GB/month of Data Retrieval Up to 5GB of egress (Public Outbound) Applies to aggregate total across all storage bucket classes The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security. Lite plan services are deleted after 30 days of inactivity.	Free 
Standard	There is no minimum fee, so you pay only for what you use.	See pricing details


Configure your resource

Service name

Cloud Object Storage-iu

Select a resource group

Default




Summary

Cloud Object Storage
Region: Global
Plan: Lite
Service name: Cloud Object Storage-iu
Resource group: Default

Create

[View terms](#)

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

 IBM Cloud Pak for Data

New project

Define project details

Name

Description

Define storage

① Select storage service

Add

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

② **Refresh**

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

New project

Define project details

Name

Capstone Project

Description

Project description

Choose project options

☐ Restrict who can be a collaborator ⓘ

Project includes integration with [Cloud Object Storage](#) for storing project assets.

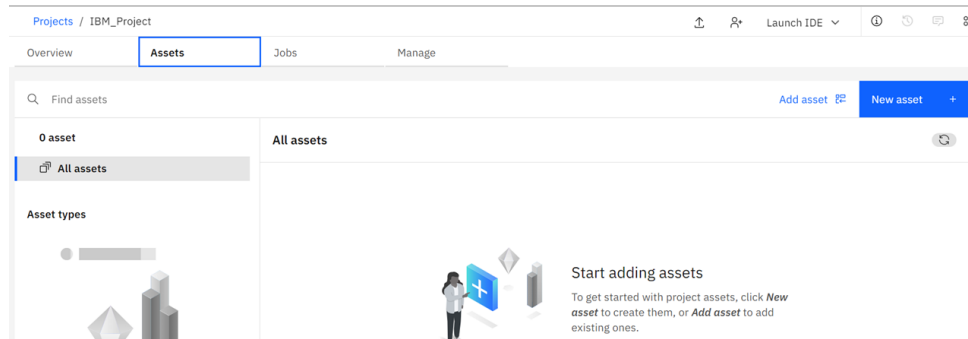
Storage

Cloud Object Storage-iu

Cancel

Create

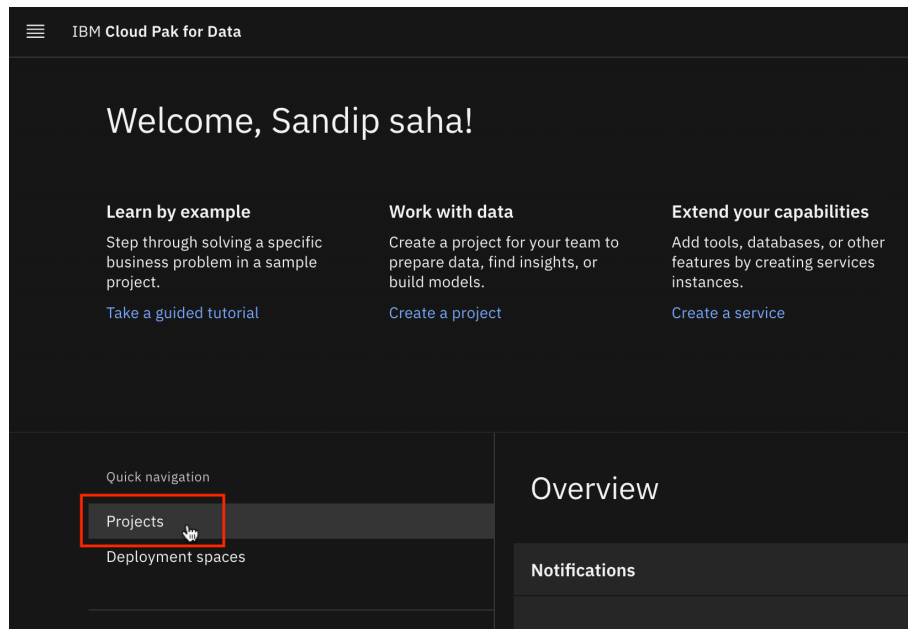
7. You have successfully created a project. Click **IBM Cloud Pak for Data** at the top left to go back to homepage.



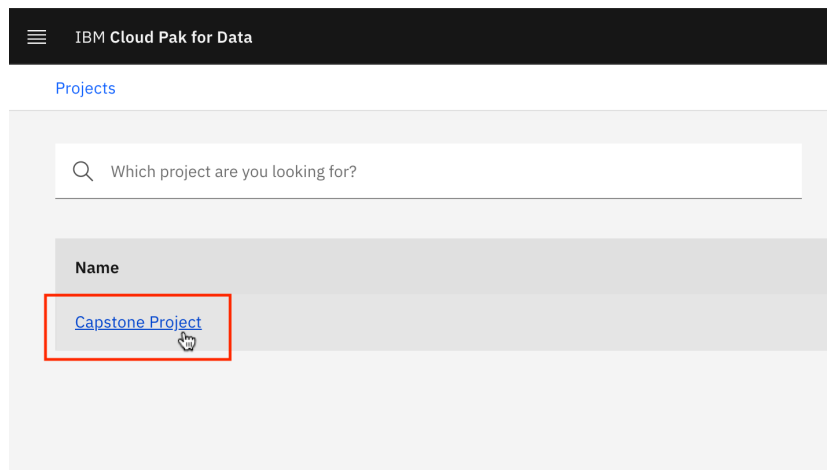
Exercise 3: Adding a Jupyter Notebook to the Project

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

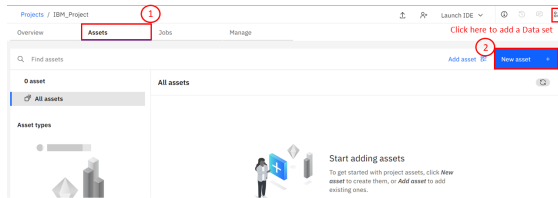
1. From IBM Cloud Pak for Data homepage, click **Projects** under Quick navigation.



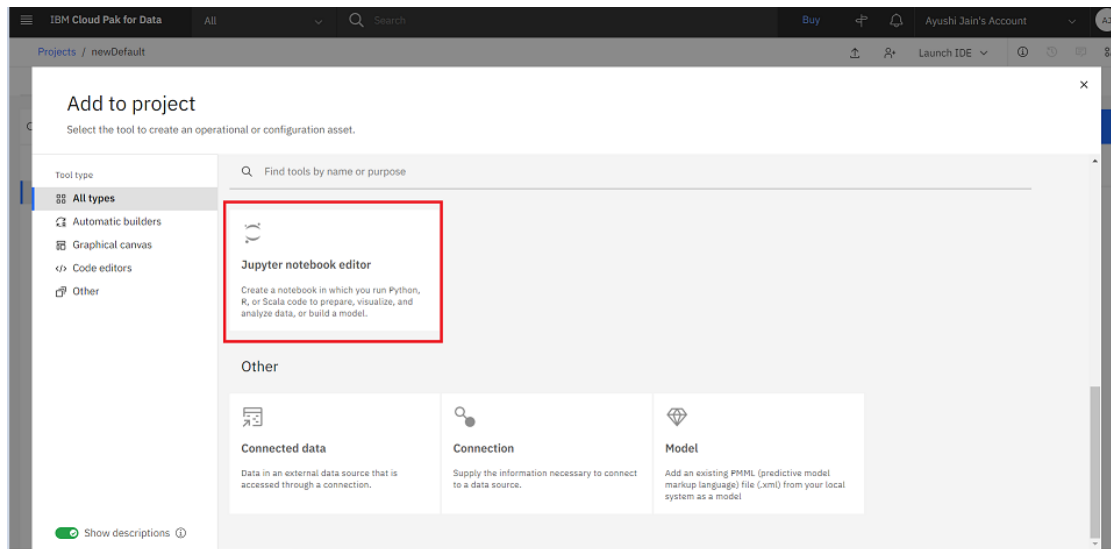
2. Select the project you created earlier.



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



4. Select **Notebook**.



5. Right-click on this [Link](#) 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.

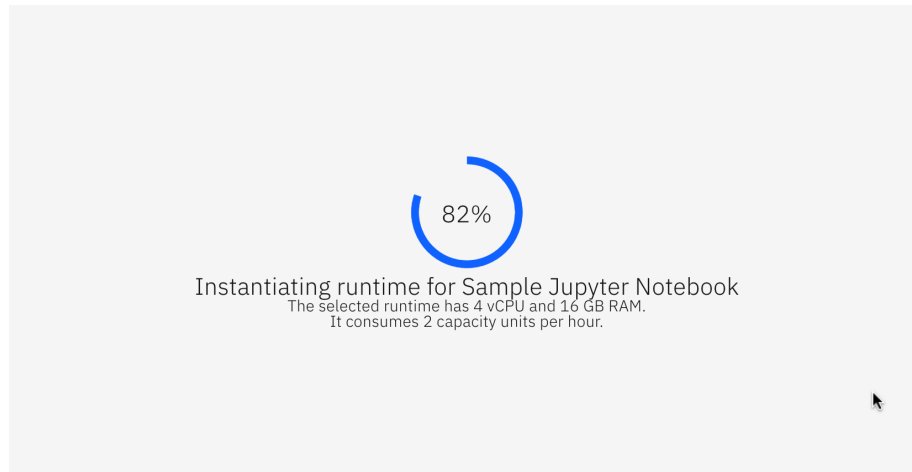
Notebook URL

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

Cancel

Create

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



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.

IBM Cloud Pak for Data

Upgrade

Projects / Capstone Project / Sample Jupyter Notebook

Share

This is a sample jupyter notebook

Jupyter notebook lets you run python from your web browser.
Here are a few simple things that you can do.

Print 'Hello World'

```
In [30]: print('Hello World')
```

Hello World

Ask user for name and the print it.

```
In [33]: name = input("Please enter your name: ")
print("Hello {}!! Hope you are having fun with jupyter notebooks.".format(name))
```

Please enter your name: sr
Hello sr!! Hope you are having fun with jupyter notebooks.

Import a python module

```
In [4]: import sys
```

Print the version of python

```
In [5]: print(sys.version)
```

3.7.6 (default, Jan 8 2020, 13:42:34)
[Clang 4.0.1 (tags/RELEASE_401/final)]

Print today's date

```
In [38]: import datetime
today = datetime.datetime.today()
print(datetime.datetime.strftime(today, '%d-%B-%Y'))
```

28-October-2020

```
In [ ]:
```

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.



Close

Congratulations! You have completed this Lab.

Author

- [Sandip Saha Joy](#)

Other Contributor(s)

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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

