

(Optional) Hands-on Lab: Create IBM Cloud account and Watson Studio instance



Skills Network

Estimated time needed: 40 minutes

In this lab you will explore Watson Studio

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

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.

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.

2. On the Watson Studio page, click on Launch in IBM Cloud Pak for Data.

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

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

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

The screenshot shows the IBM Cloud console interface. On the left, there's a navigation sidebar with categories like 'Name', 'Group', 'Location', 'Offering', 'Status', and 'Tags'. Under 'Services', several services are listed: Analytics Engine-sh, Discovery-hd, Machine Learning-ai, Visual Recognition-wm, and Watson Studio-go. The Watson Studio-go service is highlighted with a red box.

3. On the Watson Studio page, click on Launch in IBM Cloud Pak for Data.

This screenshot shows the 'Watson Studio in Cloud Pak for Data' page. It includes sections for 'Manage', 'Helpful links', 'Documentation', 'Learning path', and 'Videos'. A prominent red box surrounds the 'Launch in IBM Cloud Pak for Data' button at the top center.

Task 3: Creating a Project

1. Click on **Create a project**

The screenshot shows the 'Create a project' page. It has sections for 'Learn by example', 'Start working', 'Add features', and 'Quick creation'. A red box highlights the 'Create a project' button at the bottom of the 'Start working' section.

2. On the Create a project page, click **Create an empty project**

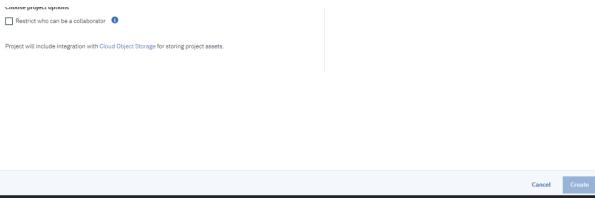
This screenshot shows the 'Create an empty project' page. It has sections for 'Create an empty project', 'Create from a sample or file', and 'USE TO'. A red box highlights the 'Create an empty project' button at the top left.

3. Provide a **Project Name and Description**, as shown below:

The screenshot shows the 'New project' page. It has sections for 'Define project details' (with 'Name' set to 'Python Basics for Data Science Project' and 'Description' set to 'This is the Python Basics for Data Science Project.'), 'Choose project options' (with a checked checkbox for 'Restrict who can be a collaborator'), and 'Define storage' (with a 'Select storage service' dropdown). A red box highlights the project name and description fields.

4. You must also create storage for the project. Click **Add**

This screenshot shows the 'Define storage' page. It has sections for 'Define storage service' (with a 'Select storage service' dropdown) and 'Add' (with a red box highlighting it). Below the 'Add' button is a note: 'Add an object storage instance and then return to this page and click Refresh.'



5. On the Cloud Object Storage page, scroll down and then click **Create**.

PLAN	FEATURES	PRICING
<input checked="" type="radio"/> Lite	10 GB Service Storage Monthly up to 9.75 GB/day 1000 PUT Requests/second Up to 2.000 PUT requests/sec. Up to 2.000 Get Requests/second Up to 2.000 Data Retrieval/second 1000 Object Permutation 1000 Object Versioning Apply to aggregate total across all storage bucket classes	Free

Pricing Plan: Monthly fees shown above reflect the United States.

There is no minimum fee, as you pay only for what you use.

6. In the Confirm Creation box, click **Confirm**.

7. On the New project page, note that the storage has been added, and then click **Create**.

Task4: Adding a Notebook to the Project:

1. You need to add a Notebook to your project. Click on **Assets > New asset**.

The screenshot shows the 'Assets' section of the IBM Project interface. At the top, there's a navigation bar with 'Projects / IBM_Project' and a red box highlighting the 'Assets' tab. A circled '1' is above the tab. To the right are 'Jobs' and 'Manage' buttons, along with standard browser controls like back, forward, and refresh. Below the navigation is a search bar with 'Find assets'. The main area has two sections: 'All asset' (with a circled '2') and 'All assets' (with a circled '3'). Under 'All assets', there's a 'New asset' button with a question mark icon. On the left, there's a 'Asset types' section with a bar chart showing three categories: one large grey bar and two smaller bars. To the right, there's a 'Start adding assets' callout with an illustration of a person interacting with a screen and a building, and text encouraging users to click 'New asset' to add them or existing ones.

2. Scroll down and select Jupyter Notebook Editor:

Add to project

Create the flow to create an operational or configuration asset.

Tool type

- All types
- Automatic builders
- Application command
- Code editors
- Other

Code editors

Jupyter notebook editor

Create a notebook in which you run Python, R, or Scala code to prepare, visualize, and analyze data.

Other

Connected data	Connection	Model
Data in an external data source that is accessed directly from your system.	Specify the information necessary to connect to a system or service.	Add an existing item, generate a model, or use a template to create a new item from your local system as a model.

Show descriptions 

3. On the New Notebook page, enter a name for the notebook, and then click **From URL**.

[Copy this link.](#)

4. Paste it into the **Notebook URL** box, and then click **Create Notebook**.

New notebook
[From file](#)
[From URL](#)

Name

Description (optional)

Type your description here

Select runtime

[Jupyter Notebook 2.2.2 on Python 3.9 \(K8S\) \(vCPU 4.00 RAM\)](#)

The selected runtime has 5 vCPUs and 4.00 RAM.
It consumes 0.5 capacity units per hour.
(more information about capacity units and Blazor Studio pricing options.)

Reproduce URL:

<https://dev-containers-data.v3.cloud-object-storage.appdomain.cloud/10f4...>

[Cancel](#)
[Create](#)

You will see this Notebook:

Introduction to Pandas in Python

Estimated time needed: 15 minutes

Objectives

After completing this lab you will be able to:

- Use Pandas to access and view data

Table of Contents

- [About the Dataset](#)
- [Introduction of Pandas](#)
- [Viewing and Accessing Data](#)
- [Quiz on DataFrame](#)

Estimated time needed: 15 min

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