

Skill Net

Lab: Creating a Watson Studio Project with Jupyter Notebooks

Objective(s):

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

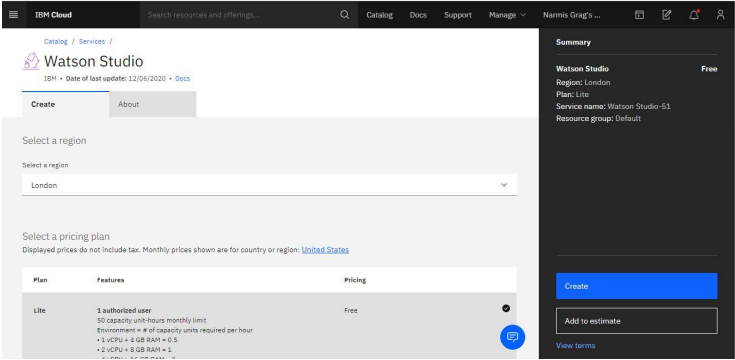
You need an IBM Cloud account to create a project in Watson Studio. If you don't have an account created already, click and open this [link](#) and follow the instructions, to create an IBM Cloud account.

Exercise - Create a project on Watson Studio

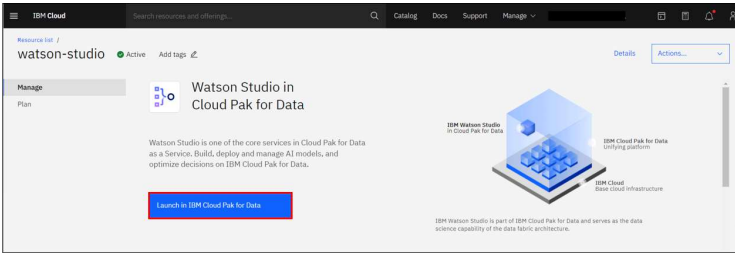
If you have not created a Watson service before proceed with Task 1, otherwise go to Task 2

Task 1: Create Watson Studio Service:

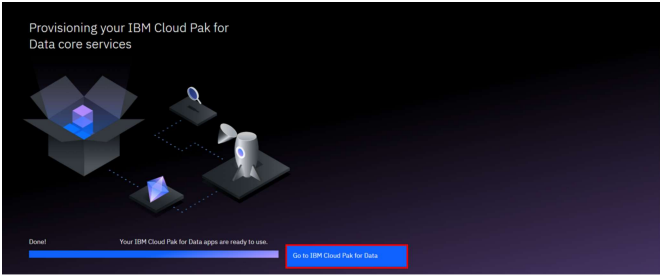
1. [Click here](#) to go to the IBM Cloud Watson Studio page. You will see the screen in the figure below. Click on the **Create** button.



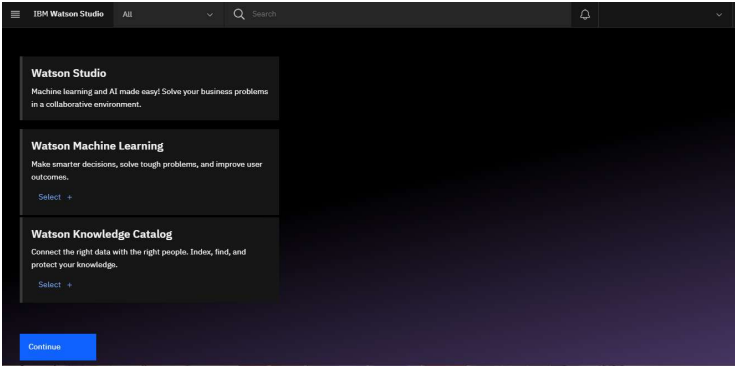
2. Now click **Launch IBM Cloud Pak for Data.**



3. Then click **Go to IBM Cloud Pak for Data.**

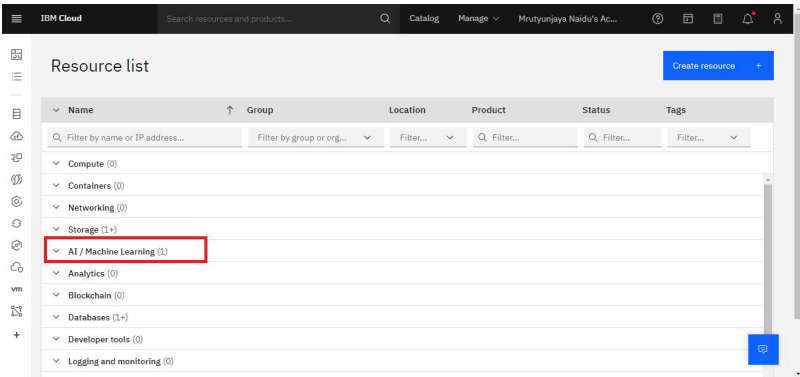


4. Then click **Continue.**

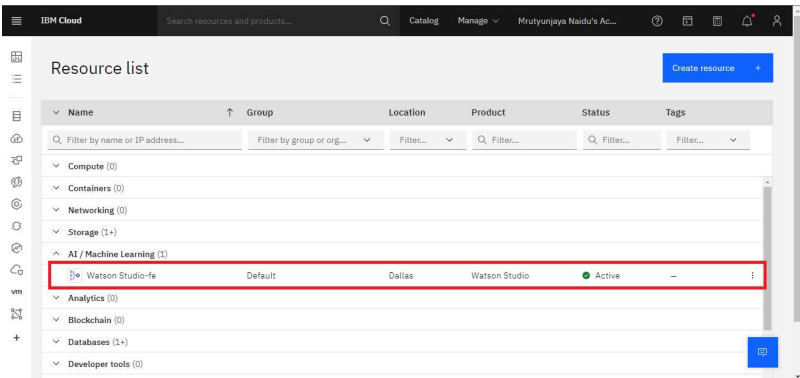


Task 2: Open Watson Studio

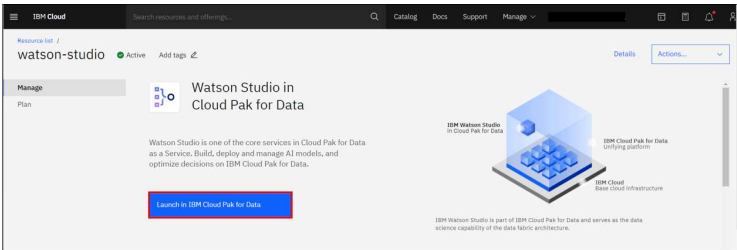
1. Go to the [Resource list](#) and click on the drop-down arrow for **AI / Machine Learning**.



2. Under **AI / Machine Learning** you will find the Watson Studio which you just created. Click the Watson Studio service.

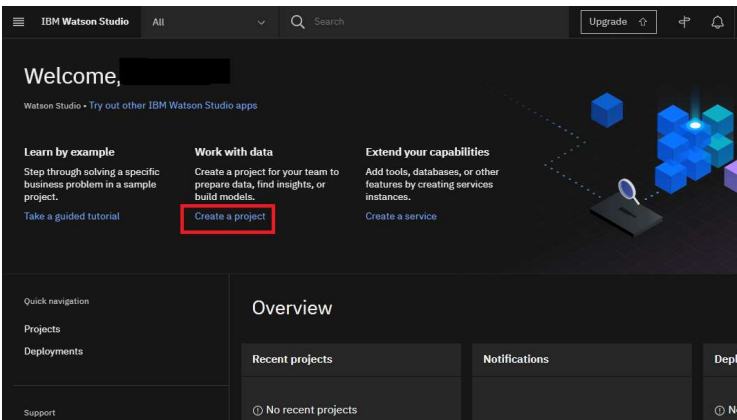


3. Then click **Launch IBM Cloud Pak for Data**.



Task 3: Create a Project

1. Click on **Create a project**.



2. On the **Create a project** page, 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.

AutoML

AutoML 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**.

New project

Define project details

Name

Project name

Description

Project description

Choose project options

☐ Restrict who can be a collaborator ⓘ

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

Define storage

1 Select storage service

[Add](#)

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

2 Refresh

Cancel

Create

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

New project

Define project details

Name

Project name

Description

Project description

Choose project options

☐ Restrict who can be a collaborator ⓘ

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

Define storage

1 Select storage service

[Add](#)

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

2 Refresh

Cancel

Create

5. On the Cloud Object Storage page, click **Create**.

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	<div>1 COS Service Instance</div> <div>Storage up to 25 GB/month</div> <div>Up to 2,000 Class A (PUT, COPY, POST, and LIST) requests per month</div> <div>Up to 20,000 Class B (GET and all others) requests per month</div> <div>Up to 10 GB/month of Data Retrieval</div> <div>Up to 5GB of egress (Public Outbound)</div> <div>Applies to aggregate total across all storage bucket classes</div> <div>The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security.</div>	

Free

Create

View more

Summary

Cloud Object Storage

Region: Global

Plan: Lite

Service name: Cloud Object Storage v1

Resource group: Default

Create

View more

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

New project

Define project details

Name

Project name

Description

Project description

Choose project options

☐ Restrict who can be a collaborator ⓘ

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

Define storage

1 Select storage service

[Add](#)

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

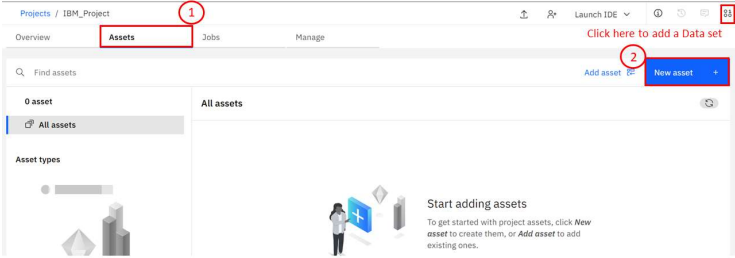
2 Refresh

Cancel

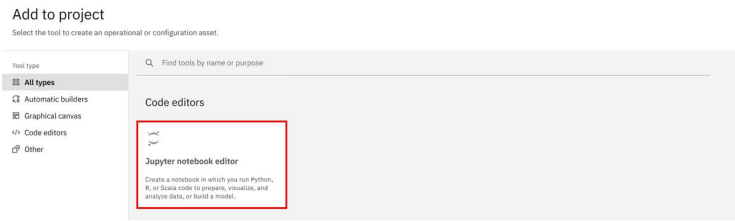
Create

Task 4: Adding a Notebook to the Project:

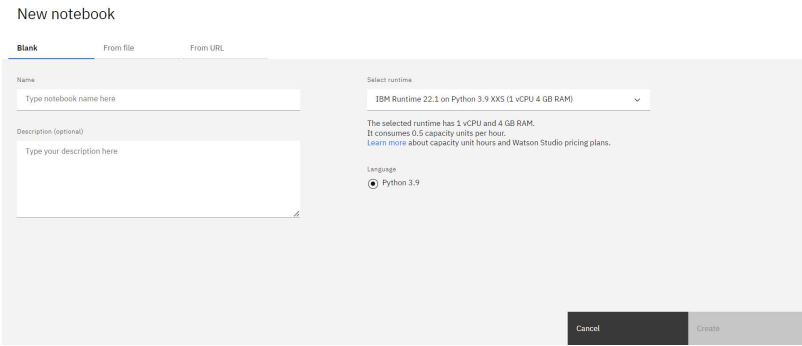
1. Click on **Assets > New asset**.



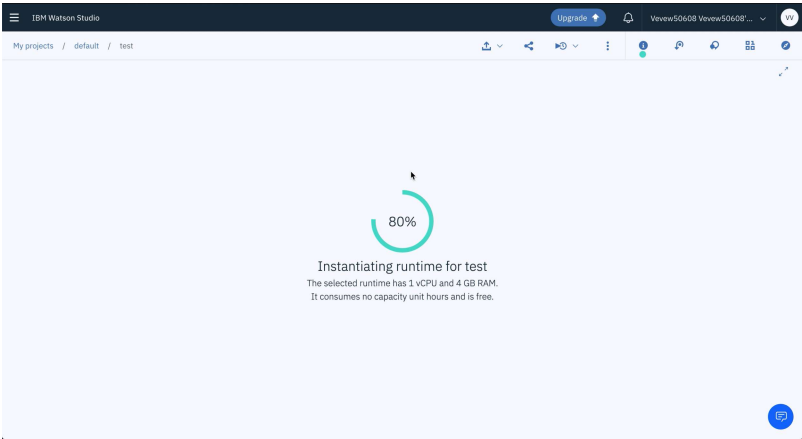
2. In the list of asset types, click **Jupyter Notebook Editor**.



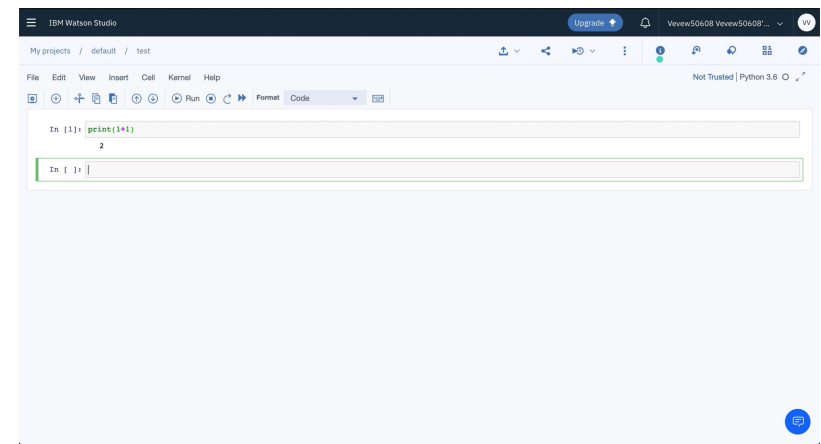
3. On the New notebook page, click **Blank** and then add a name and optional description for the notebook. Specify the language as Python and runtime environment. Click **Create**.



Wait until the notebook appears. If you are interested, the Jupyter enterprise gateway has requested resources on the Kubernetes cluster IBM hosts for serving the Jupyter kernel backing your notebook.



Now you are ready to code!



This concludes this tutorial.

Author(s)

Romeo

Changelog

Date	Version	Changed by	Change Description
2022-12-19	2.3	Anita Verma	Updated Screenshots and instructions
2022-04-04	2.2	Malika	Updated Screenshots
2021-10-11	2.1	Malika	Updated IBM account creation
2020-08-25	2.0	Migrated Lab to Markdown and added to course repo in GitLab	

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