

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

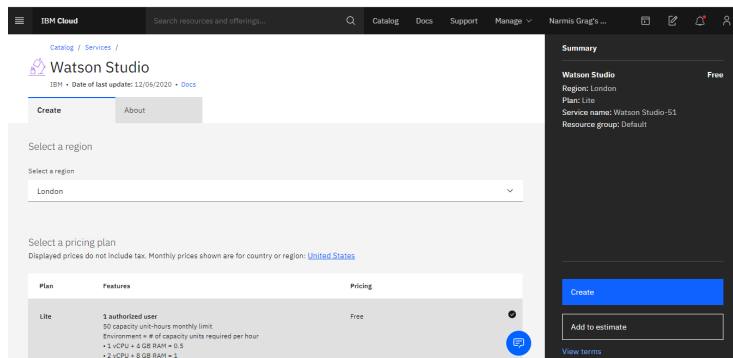
You need an IBM Cloud account to create a project in Watson Studio. If you don't have an account created already, click and open this [link](#) and follow the instructions, to create an IBM Cloud account.

Exercise - Create a project on Watson Studio

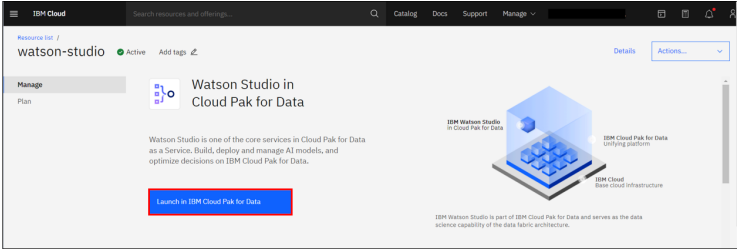
If you have not created a Watson service before proceed with Task 1, otherwise go to Task 2

Task 1: Create Watson Studio Service:

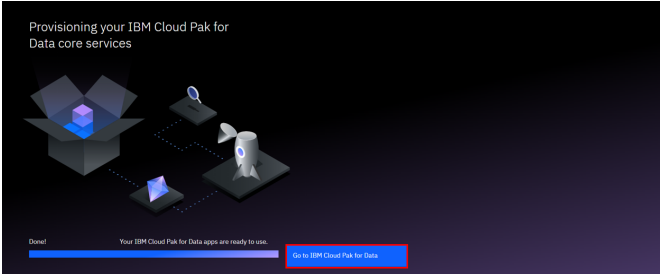
1. [Click here](#) to go to the IBM Cloud Watson Studio page. You will see the screen in the figure below. Click on the **Create** button.



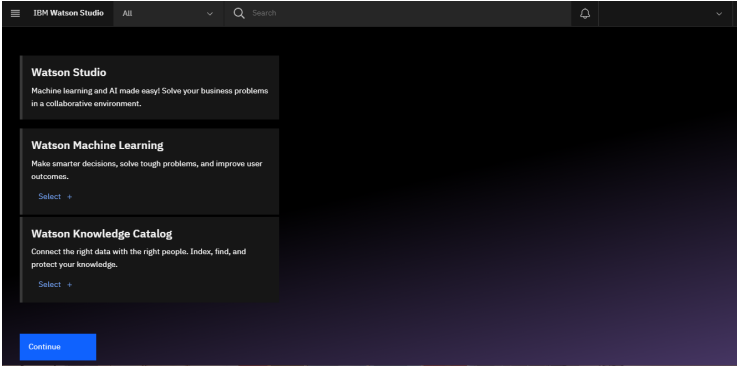
2. Now click **Launch IBM Cloud Pak for Data**.



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

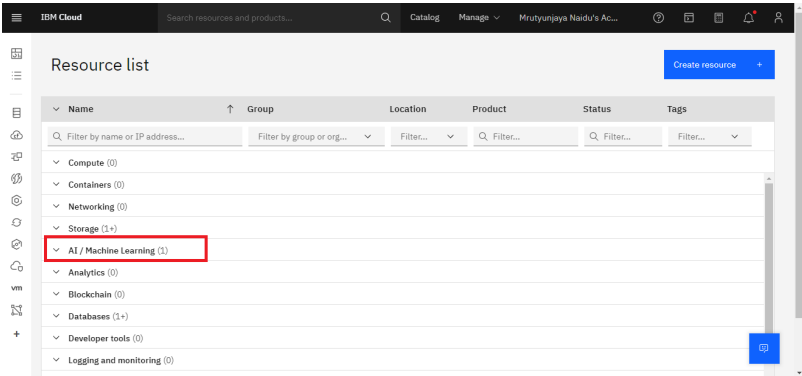


4. Then click **Continue**.

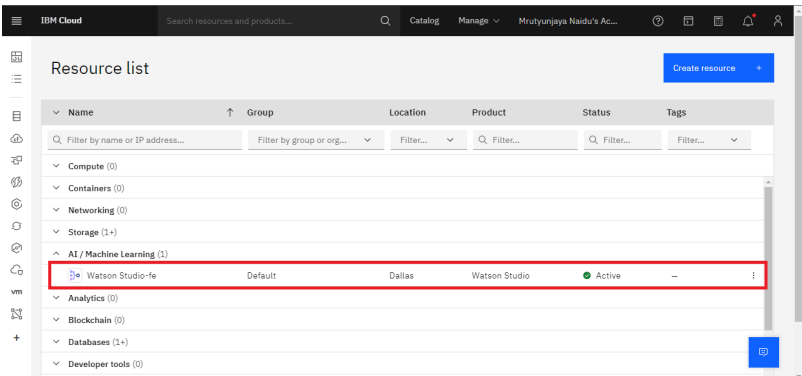


Task 2: Open Watson Studio

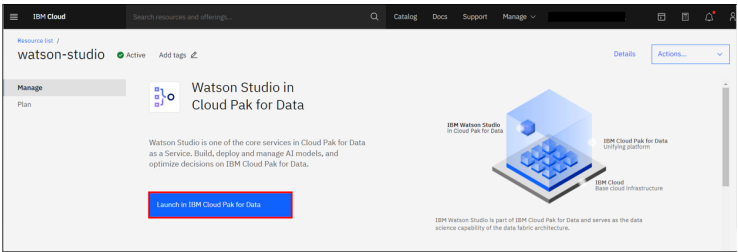
1. Go to the [Resource list](#) and click on the drop-down arrow for **AI / Machine Learning**.



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

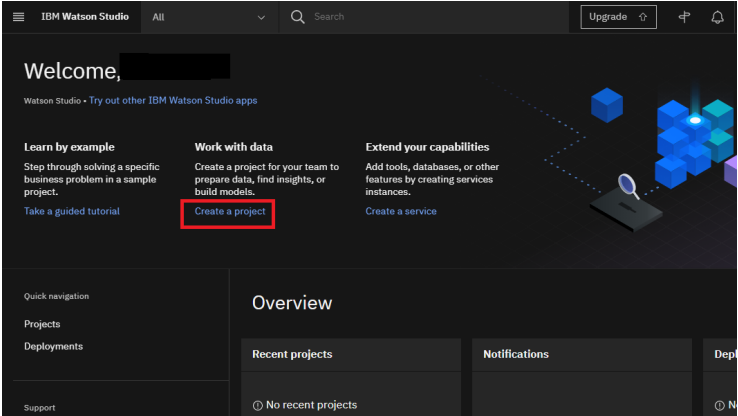


3. Then click **Launch IBM Cloud Pak for Data**.

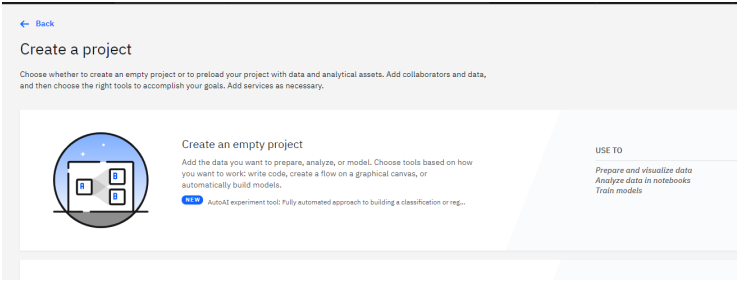


Task 3: Create a Project

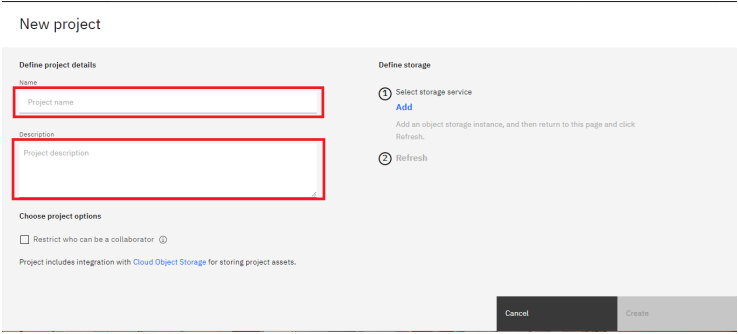
1. Click on **Create a project**.



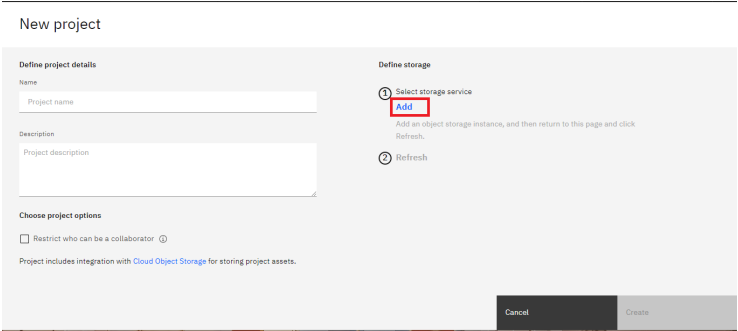
2. On the **Create a project page**, click **Create an empty project**



3. Provide a **Project Name** and **Description**.



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



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 details

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**.

Projects / IBM_Project

Assets

Jobs

Manage

Find assets

Add asset

New asset

0 asset

All assets

Asset types

All asset

Start adding assets

To get started with project assets, click **New asset** to create them, or **Add asset** to add existing ones.

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

Add to project

Select the tool to create an operational or configuration asset.

Tool type

All types

Automatic builders

Graphical canvas

Code editors

Other

Find tools by name or purpose

Code editors

Jupyter notebook editor

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

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**.

New notebook

Blank

From file

From URL

Name

Type notebook name here

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.

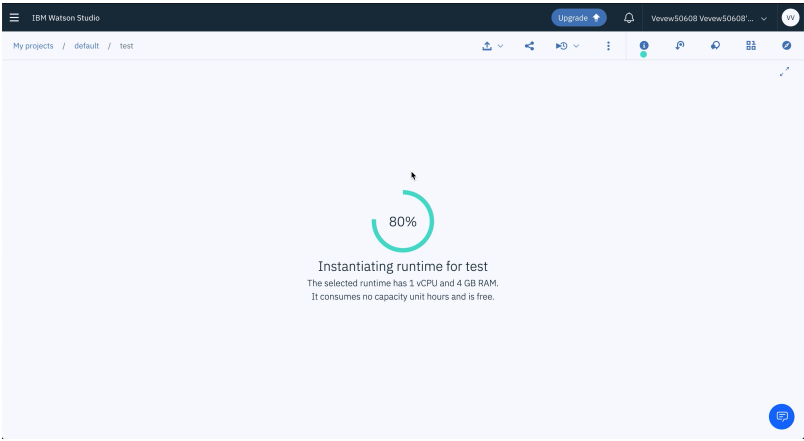
Language

Python 3.9

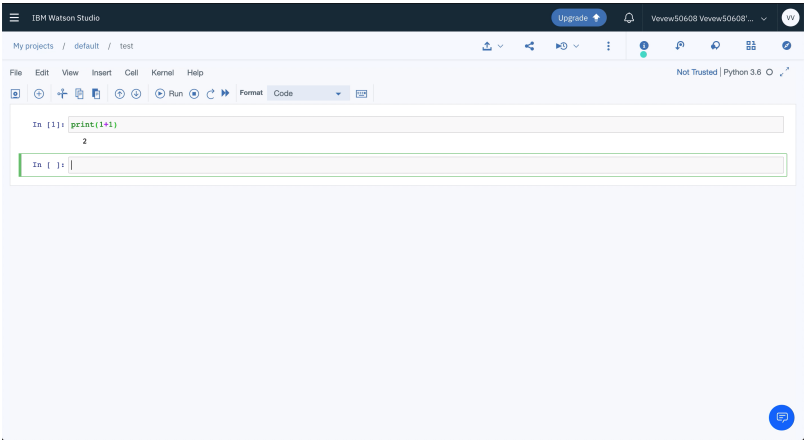
Cancel

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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