



Effort: 20 min

In this lab, you will import a notebook in Watson Studio and perform the Classification

Objectives

After completing this lab, you will be able to:

- Import a Notebook in Watson Studio
- Solve Classification Problem

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

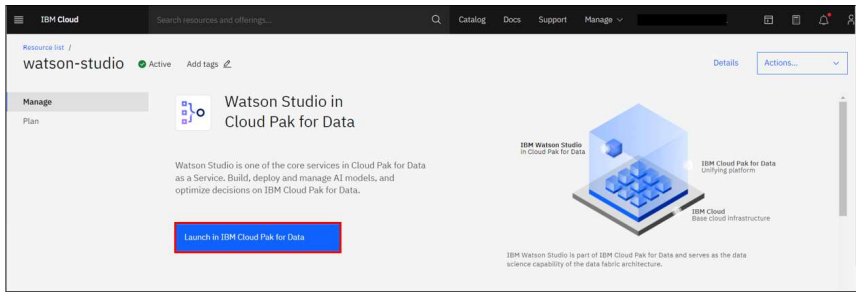
If you have not created a Watson service before proceed with Task 1, otherwise go to Task 2

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

1. [Click here](#) to log into IBM cloud with your credentials.
2. Go to the [IBM Cloud Watson Studio page](#). To create a Watson service, choose a plan you want to use, click **Create**.

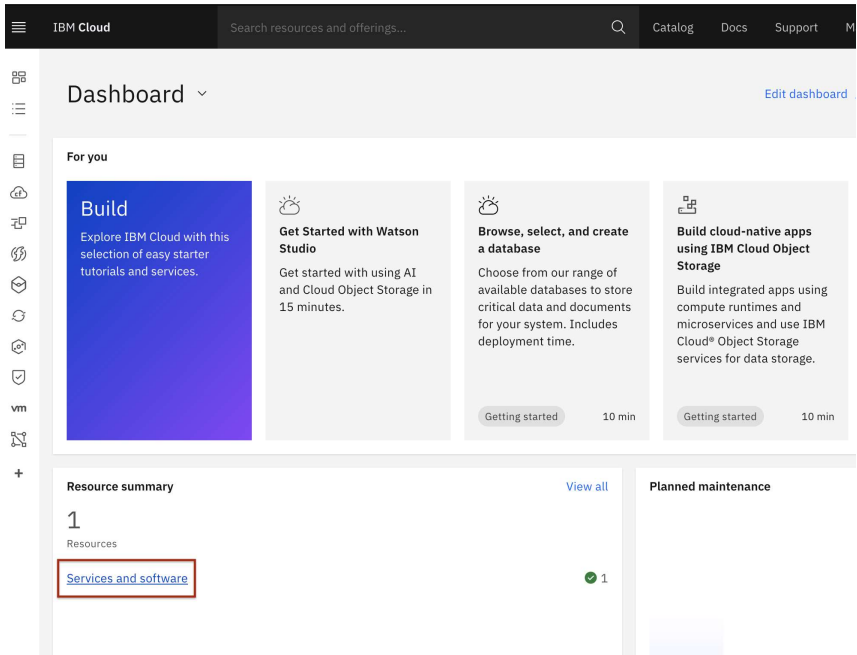
The screenshot shows the IBM Cloud Watson Studio 'Create' page. On the left, there's a sidebar with 'Type: Service', 'Provider: IBM', 'Updated on: 09/24/2021', 'Category: AI / Machine Learning', 'Compliance: HIPAA Enabled, IAM-enabled', and 'Location: Frankfurt, London, Tokyo, Dallas'. The main content area has a 'Create' tab selected. It prompts to 'Select a location' (Frankfurt (eu-de) is selected) and 'Select a pricing plan' (Lite plan is selected). A table shows the 'Lite' plan features: 1 authorized user, 50 capacity units 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, and Decision Optimization = Environment + 5. The pricing is 'Free'. A summary panel on the right shows: Watson Studio, Location: Frankfurt, Plan: Lite, Service name: Watson Studio-v0, Resource group: Default. A 'Create' button is highlighted with a red box.

3. Now click **Launch in IBM Cloud Pak for Data**

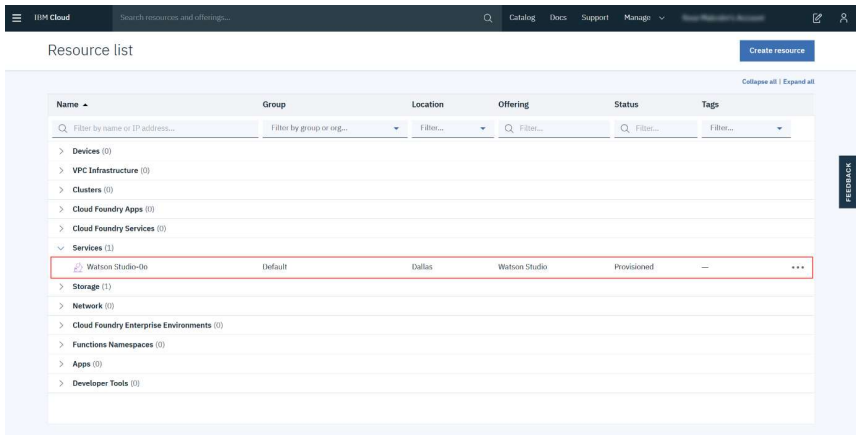


Task 2: For Existing Users (who already have Watson Service):

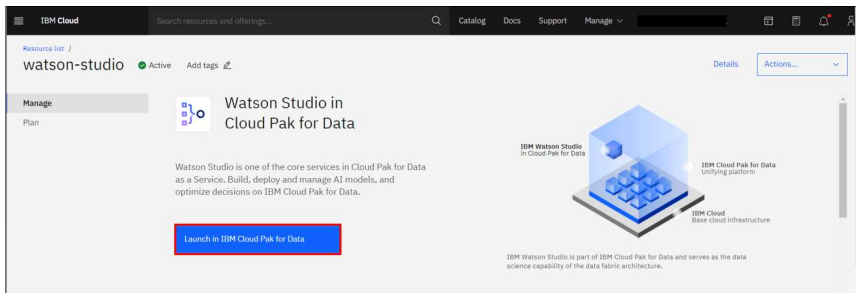
1. Go to the IBM Cloud Dashboard and click **Services**.



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

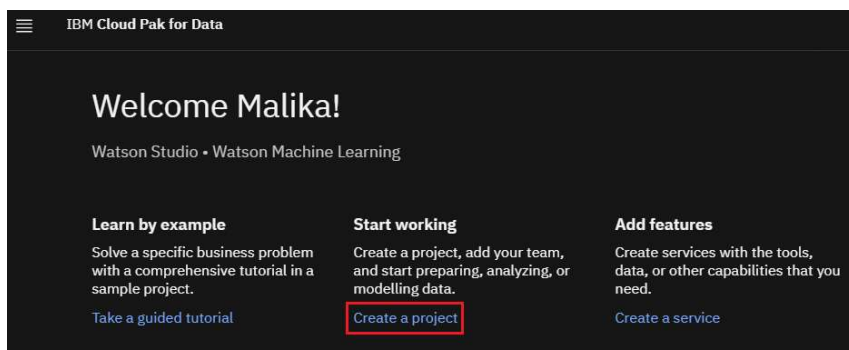


3. Then click **Launch in IBM Cloud Pak for Data**

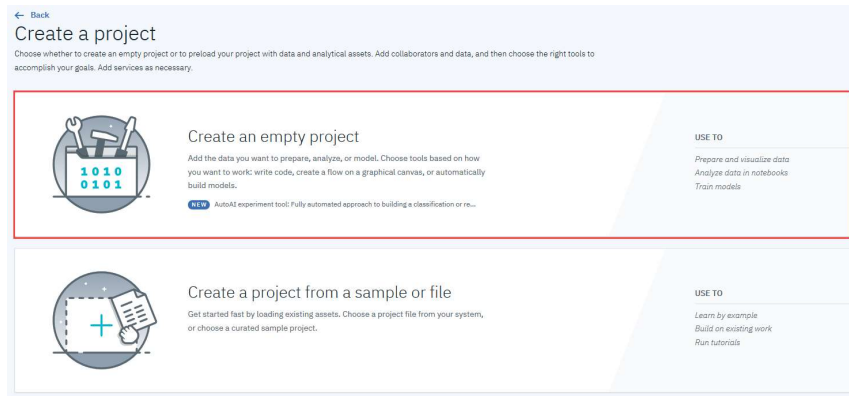


Task 2: Creating a Project

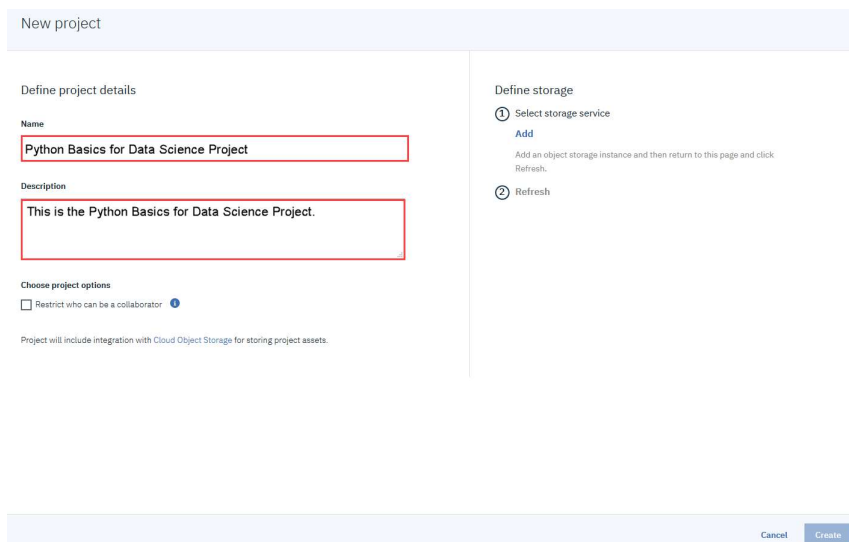
1. Click on **Create a project**:



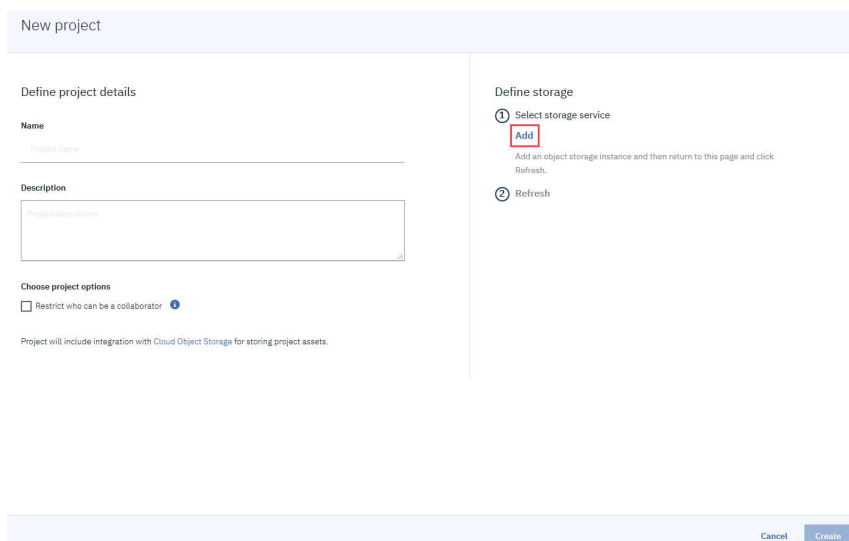
2. On the Create a project page, click **Create an empty project**



3. Provide a **Project Name** and **Description**, as shown below. Please make sure you have unchecked **Restrict who can be a collaborator**.



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



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

IBM Watson Studio

Upgrade

IBM Watson Studio

Cloud Object Storage

ExistingNew

Cloud Object Storage

IBM Cloud Object Storage is a highly scalable cloud storage service, designed for high durability, resiliency and security. Store, manage and access your data via our self-service portal and RESTful APIs. Connect applications directly to Cloud Object Storage via other IBM Cloud Services with your data.

Features

Storage for the IBM Cloud

IBM Cloud Object Storage provides persistent data storage for cloud applications. Libraries and SDKs support a common set of S3 API functions for connecting new applications to scalable cloud storage and integrating your data into other services on the IBM Cloud Platform as well as IBM Watson services. IBM Cloud Object Storage is available with Regional, Cross-Region and single-site resiliency options worldwide.

Built-in Aspera high-speed transfer

With IBM Cloud Object Storage Aspera high-speed data transfer, you can improve data transfer performance by quickly transferring data over long distances, and under various network conditions. It is natively integrated into Cloud Object Storage and there is no additional cost for uploading data.

Storage Classes and Archive Policy

Choose storage classes based on your usage patterns for active, less active, and cold workloads with Standard, Vault, and Cold Vault respectively. Use Flow class for dynamic data access with usage patterns that are hard to predict. For moving cold data that requires long-term retention, simply set an Archive policy with our leading object-class tiers allowing you to reduce costs even further with our lowest priced Archive storage.

Access and Key Management

IBM Identity and Access Management (IAM) policies allow for granular access control at the bucket level using role-based policies. Key Protect support allows customers to have their own managed encryption keys for higher level data security.

Pricing Plan: Monthly Process shown above reflect the: United States

PLAN	FEATURES	PRICING
<input checked="" type="radio"/> Lite	1 COS Service Instance Storage up to 75 GB/mo. Up to 20,000 GET requests/mo. Up to 2,000 PUT requests/mo. Up to Data Retrieval 10 GB/mo. Up to 5GB Public Outbound Applies to aggregate total across all storage bucket classes.	Free
<input type="radio"/> Standard	There is no minimum fee, so you pay only for what you use. Expand each section to view details	

Cancel

Create

105

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

Confirm Creation

Plan

Lite

Resource group

Default

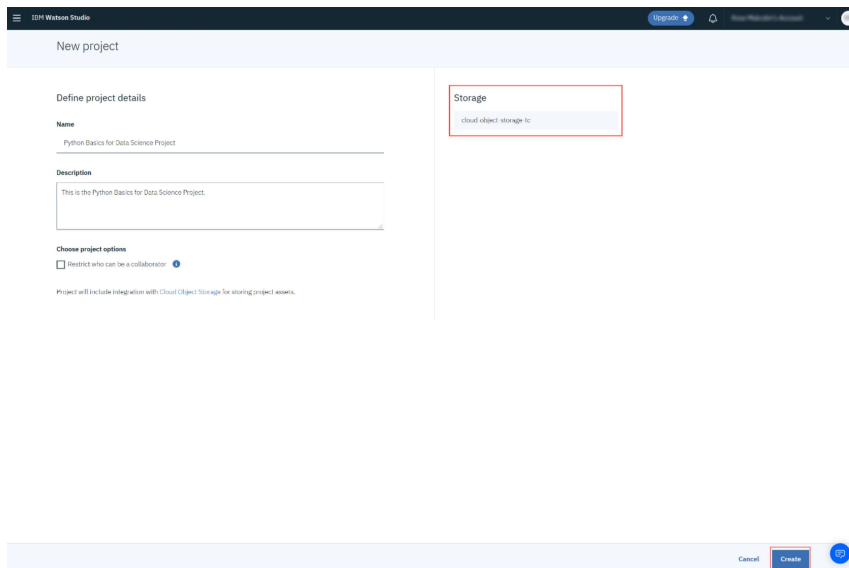
Service name

cloud-object-storage-ai

Cancel

Confirm

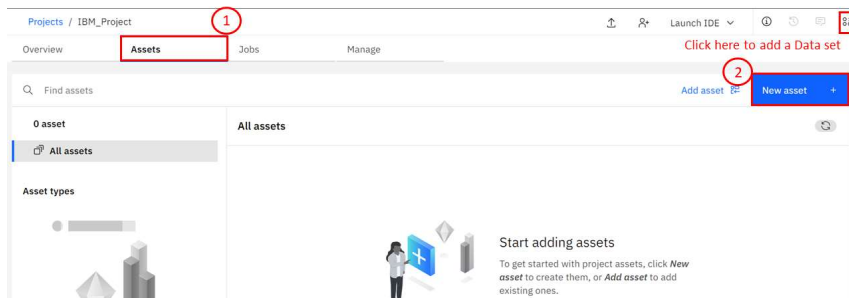
7. On the New project page, note that the storage has been added, and then click **Create**.



Task 3: Adding a Notebook to the Project

1. You need to add a Notebook to your project.

Click **Assets** and then click **New asset**.



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

Add to project

Select the tool to create an operational or configuration asset.



Note: Select the default Python as selected language.

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

4. Copy this link:

[Click here](#) and paste it into the **Notebook URL** box, and then click **Create Notebook**.

New notebook

Blank From file **From URL**

Name
Final_Assignment

Select runtime
IBM Runtime 22.1 on Python 3.9 XKS (1 vCPU 4 GB RAM)

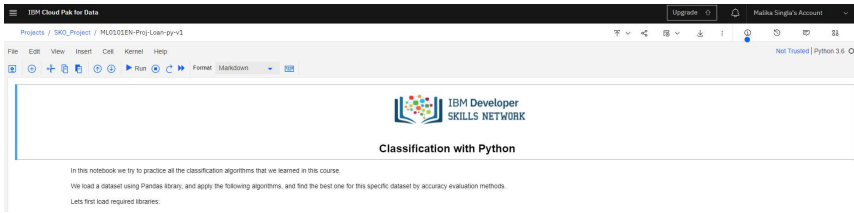
Description (optional)
Type your description here

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-DI>

Cancel Create

5. You will see this Notebook as below.



Author(s)

Joseph Santarcangelo

Change log

Date	Version	Changed by	Change Description
2022-04-05	2.5	Malika	Updated Watson Studio Screenshot
2022-02-17	2.4	Niveditha	Updated Watson Studio Screenshot
2021-10-20	2.3	Lakshmi Holla	Updated cloud account creation
2021-08-20	2.2	Lakshmi Holla	Updated watson studio screenshots
2020-11-18	2.1	Lakshmi Holla	Updated the screenshot
2020-09-05	2.0	Malika Singla	Updated the screenshot

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