



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.

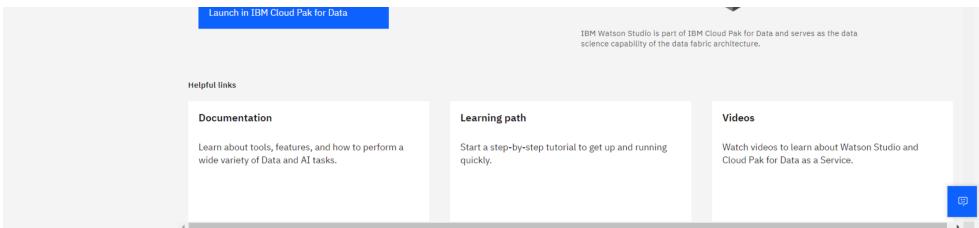
The screenshot shows the IBM Cloud Catalog interface. On the left, there's a sidebar with 'Catalog / Services / Watson Studio'. The main area displays the 'Watson Studio' service details. It shows the service is 'Free', located in 'Region: Dallas', and part of 'Service name: Watson Studio-qo' and 'Resource group: Default'. Below this, there's a 'Summary' section. On the right, there's a 'Create' button and an 'Add to estimate' button. The central part of the screen shows the 'Create' tab selected under 'Watson Studio'. It includes fields for 'Select a region' (set to 'Dallas') and 'Select a pricing plan'. A table compares the 'Plan', 'Features', and 'Pricing' for the 'Lite' plan. The 'Lite' plan is highlighted with a red border. The table row for 'Lite' includes:

Plan	Features	Pricing
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	Free

 A note below the table states: 'The Lite plan for Watson Studio offers everything you need to become a better data scientist or domain expert in a collaborative environment.' At the bottom of the page, it says 'Lite plan services are deleted after 30 days of inactivity.'

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

The screenshot shows the 'Watson Studio in Cloud Pak for Data' page. At the top, there's a navigation bar with 'IBM Cloud', a search bar, and user account information. Below the navigation, it says 'Resource list / Watson Studio-xs Active Add tags'. The main content area features a large image of a 3D cube representing the 'IBM Watson Studio in Cloud Pak for Data' architecture, built on 'IBM Cloud Base cloud infrastructure' and 'IBM Cloud Pak for Data Unifying platform'. A 'Watson Studio Plan' section is also visible on the left.



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

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

Screenshot of the IBM Cloud Dashboard showing the 'Services' section highlighted. The dashboard includes sections for Resource summary, Planned maintenance, For you, News, Recent support cases, User access, and IBM Cloud status.

Resource summary: Shows 6 resources, with 'Services' highlighted and a red box around it. It also shows 5 green checkmarks and 1 blue checkmark.

Planned maintenance: Shows a 'Clear skies!' message indicating no scheduled maintenance events.

For you: Prompts to 'Get started with using AI and Cloud Object Storage in 15 minutes.' and 'Get Started with Watson Studio'. It also mentions 'Watson Assistant lets you build conversational interfaces into any application, device, or channel.' and 'Use Watson Assistant'.

News: Headlines include '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', and 'Wipro and IBM Collaborate to Help Clients'.

Recent support cases: Shows a small icon of a document with a chart.

User access: Allows entering email addresses to jump directly into the invite user setup, with a placeholder 'Enter up to 100 email addresses'.

IBM Cloud status: Shows a map of the world with various dots representing status across different regions.

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

Screenshot of the IBM Cloud Resource list page. The 'Services' section is expanded, showing a list of existing services. One service, 'Watson Studio-qa', is highlighted with a red box.

Name	Group	Location	Offering	Status	Tags
Analytics Engine-8h	Default	London	Analytics Engine	Active	-
Discovery-h0	Default	Dallas	Discovery	Active	-
Machine Learning-6r	Default	Dallas	Machine Learning	Active	-
Visual Recognition-wm	Default	Dallas	Visual Recognition	Active	-
Watson Studio-qa	Default	Dallas	Watson Studio	Active	-

Resource list sidebar: Shows categories like Devices, VPC infrastructure, Clusters, Cloud Foundry apps, Cloud Foundry services, and Services. The 'Services' category is expanded, showing the list of services.

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

Resource list /

Watson Studio-qo

Active Add tags

Details

Actions...

Manage

Plan



Watson Studio

Welcome to Watson Studio. Let's get started!

[Get Started](#)

Documentation

From getting started to how to's – see what's available.

Community

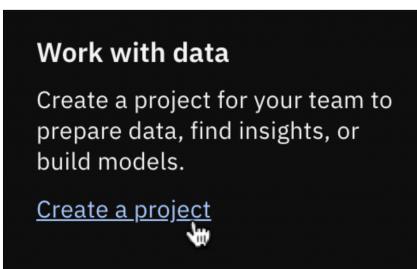
Check out our tutorials, articles, along with sample notebooks and data sets you can use to get going.

FEEDBACK

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](#).



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.

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.**

[IBM Cloud Pak for Data](#)

New project

Define project details

Name

Description

Define storage

① Select storage service

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**.

The screenshot shows the IBM Cloud Pak for Data Services catalog. A specific service, "Cloud Object Storage", is selected. The "Summary" section includes details like "Region: Global", "Plan: Lite", and "Service name: Cloud Object Storage-lu". The "Pricing" section shows a "Lite" plan with no minimum fee, free storage up to 25 GB/month, and other usage limits. The "Configure your resource" section shows a "Service name" field set to "Cloud Object Storage-lu" and a "Select a resource group" dropdown set to "Default". A prominent blue "Create" button is at the bottom right.

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

The screenshot shows the "New project" page. On the left, the "Define project details" section has a "Name" field set to "Capstone Project". On the right, the "Define storage" section has a "① Select storage service" step with a "Add" button, and a "② Refresh" button below it. A red circle highlights the "Refresh" button.

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

The screenshot shows the "New project" page after refreshing. The "Storage" section now lists "Cloud Object Storage-lu" under "Storage". A red circle highlights this entry. The "Create" button at the bottom right is visible.

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

The screenshot shows the IBM Cloud Pak for Data homepage. The "Projects / IBM_Project" section is active. It displays a list of assets, with "All assets" selected. A "Start adding assets" callout with instructions is visible. The top navigation bar includes "Overview", "Assets" (which is highlighted), "Jobs", and "Manage".

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.

The screenshot shows the IBM Cloud Pak for Data homepage. The top navigation bar includes "IBM Cloud Pak for Data" and "Sandip Saha Joy's Account". Below the navigation, a welcome message "Welcome, Sandip saha!" is displayed.

Learn by example	Work with data	Extend your capabilities
Step through solving a specific business problem in a sample project.	Create a project for your team to prepare data, find insights, or build models.	Add tools, databases, or other features by creating services instances.
Take a guided tutorial	Create a project	Create a service

Quick navigation

- [Projects](#) 
- [Deployment spaces](#)

Overview

Notifications



2. Select the project you created earlier.

IBM Cloud Pak for Data

Projects

Which project are you looking for?

Name

Capstone Project 



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

Project 1 (0n, 0f)

New asset  Click here to add a data set

All assets

Start adding assets



4. Select Notebook.

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

Jupyter notebook editor

Connected data

Connection

Model

Show descriptions 



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

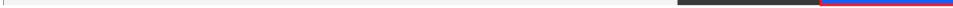
IBM Runtime 22.1 on Python 3.9 XSS (1 vCPU 4 GB RAM) 

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.

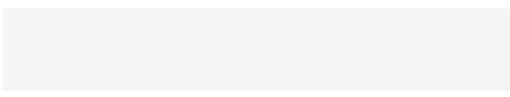
Notebook URL

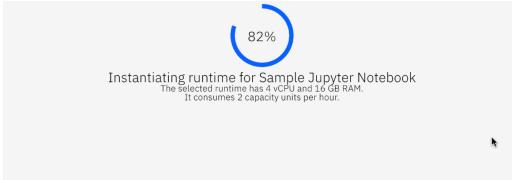
<https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-D/> 

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.

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.

Congratulations! You have completed this Lab.

Author

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Other Contributor(s)

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