Create an IBM Watson Studio instance

From IBM Cloud, we will instantiate a Watson Studio service, as the anchor for the toolset within IBM Cloud. Note that this is a one-time setup, only one instance of Watson Studio per region needs to be created.

1. Log-in to you IBM Cloud account's dashboard (at https://console.bluemix.net/dashboard/apps)

2. Click the `[Create Resource]` button at the top right
3. In the search filter field, add the single word `studio`. This should reveal the lite services having the `studio` word in their name.

and click the `Watson Studio` tile.

> NOTE: Make sure to use `Watson Studio`, and *not* `Knowledge Studio`

4. You are taken to the service creation page. Although it is possible to create an instance of Watson Studio in either `US South` or `United Kingdom` regions, it is recommended to use `US South` because this is where services, including new beta ones are updated first. You can change the service name suffix or keep the suggested name. Keep the `Lite` service plan and
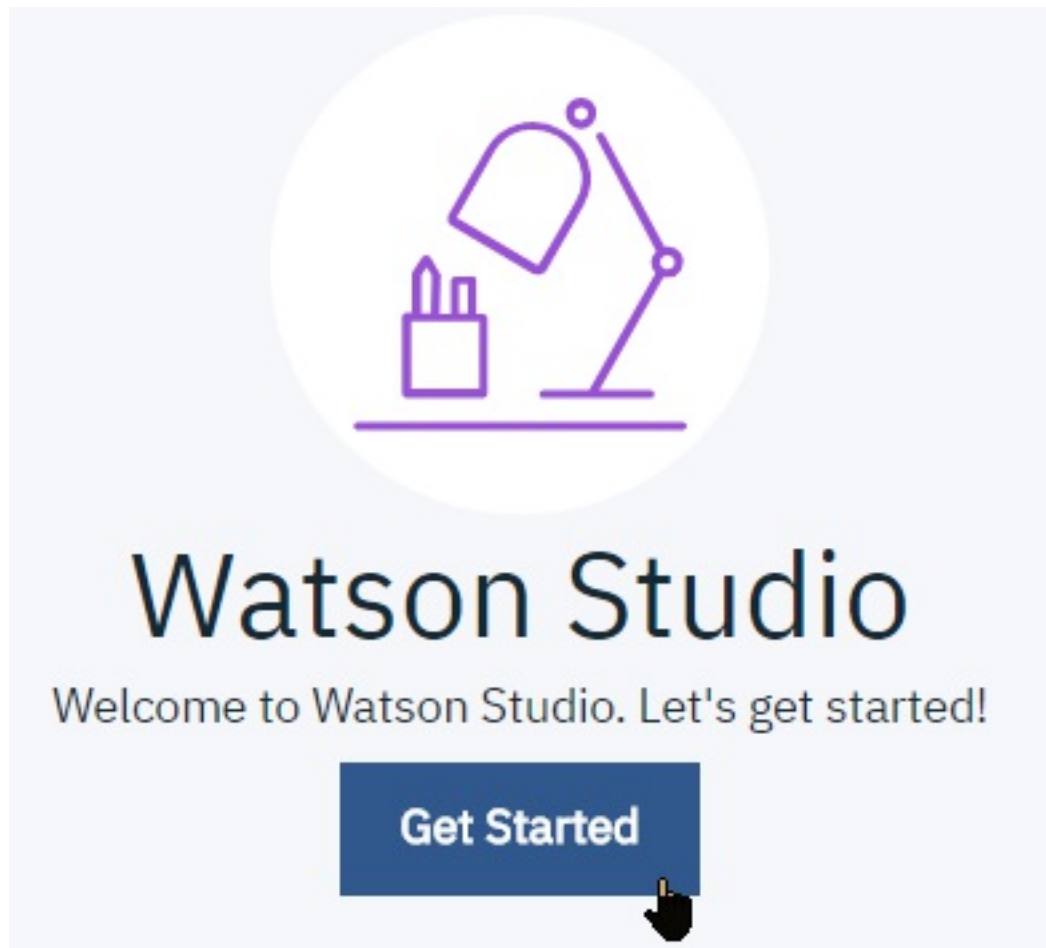
click the `[Create]` button.

NOTE: In the rest of the labs, if you created your Waston Studio instance in the `US-South` region, you will need to use the plain URLs without prefix, e.g. `dataplatform.ibm.com`, but if you created in the `United Kingdom` region, you will need to use the `eu-gb` URLs, e.g. `eu-gb.dataplatform.ibm.com`.

Creating a Watson Studio project

Now that we have put in place the infrastructure to work with Data & AI, we can start creating a project for a specific data handling project.

1. If not already signed-in, login to your Watson Studio environment within IBM Data Platform. For this, go back to the IBM Cloud dashboard, select the `Watson Studio` service instance, and click the '[Get

Started]' button   .

The first time you start the Watson Studio UI, you will be asked to confirm some details, click the `[Continue]` button:

Select Organization and Space

Confirm your IBM Cloud organization and space information below.
Or create new organization and space

Select IBM Cloud account

Workshop User's Account ⌄

IBM Cloud Organization

iotnice-watstud0724@yahoo.com ⌄

IBM Cloud Space

dev ⌄

IBM Resource Group

Default ⌄

Continue

, and then validate

✓ Done!

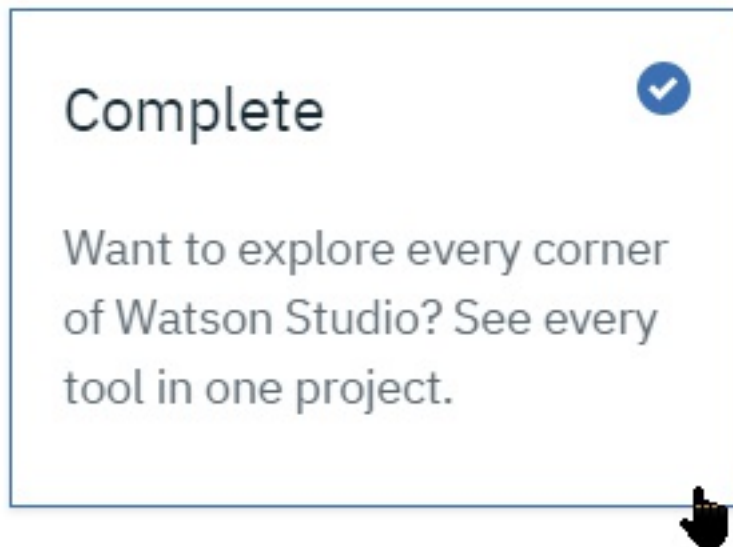Your Watson apps are ready to use.

Get Started

Note that you can also go directly to the service's Cloud Web UI using the URL for the region where

the service has been created, either https://dataplatform.ibm.com/projects?context=analytics for 'US-South' or https://eu-gb.dataplatform.ibm.com/projects?context=analytics for 'United Kingdom'

Create a new project using the `Create a Project` button tile

Then select a `Standard` configuration. This governs which tools are made available to the project, and can be altered later if need be

Validate with the `[OK]` button

2. Name this new project e.g. `WatStud_Workshop`.

Note that you will want to leave the 'Restrict who can be a collaborator' unchecked, it will make sharing the project with another account more straightforward.

Watson Studio stores its file-like artifacts into an instance of `Cloud Object Storage`, we will create a COS service instance at this stage:

Currently, your only choice is IBM Cloud Object Storage. Information stored with IBM Cloud Object Storage is encrypted, resilient and dispersed across multiple geographic locations, and accessed over HTTP using a REST API.

Each project and catalog has its own dedicated bucket.

1. Select the Lite Plan

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

PLAN	FEATURES	PRICING
● Lite	**1 COS Service Instance** Storage up to 25 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

The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security.

2. Accept the default names for resource group and Service name
3. Back to the Project creation page, select Refresh then the new Object Storage service instance
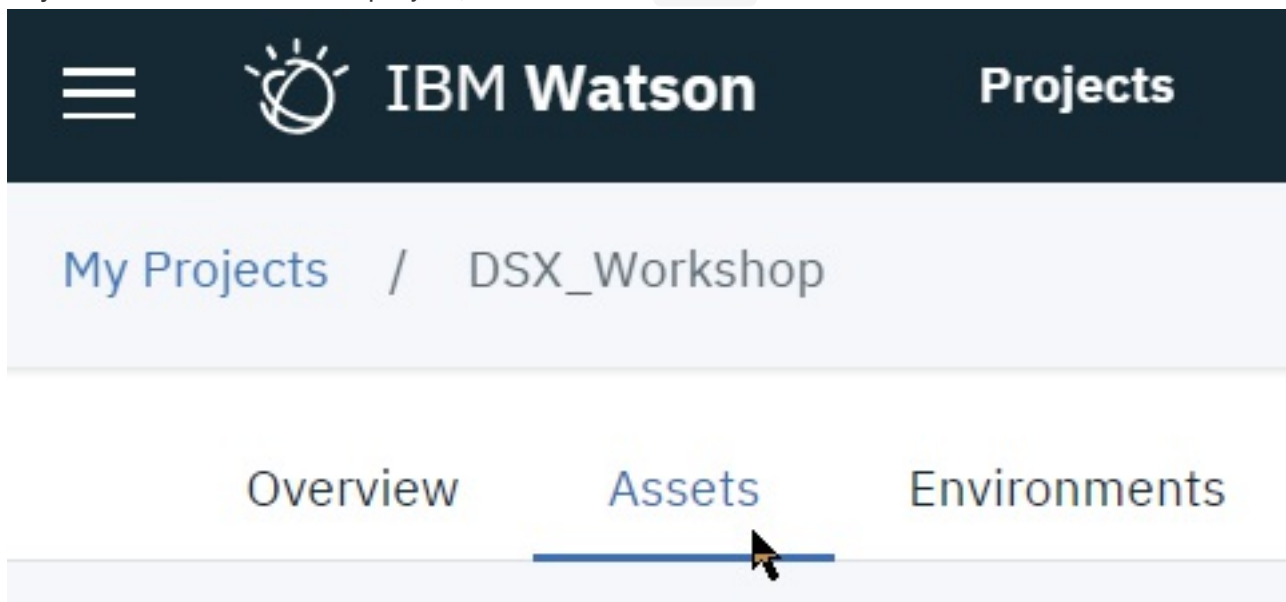4. Finally, click Create:

Note that COS instance needs to be created only once, it will hold projects' artifacts in separate buckets for each.
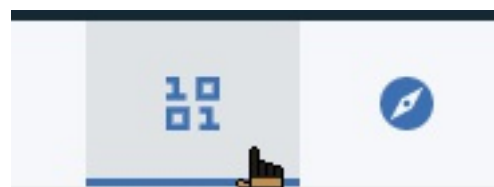
Loading Data Assets for the project

We will load some of the files used during the Hands-On lab as Data Assets available to your project. The files are available in the Box folder.

1. In your IBM Watson Studio project, switch to the `Assets` tab:
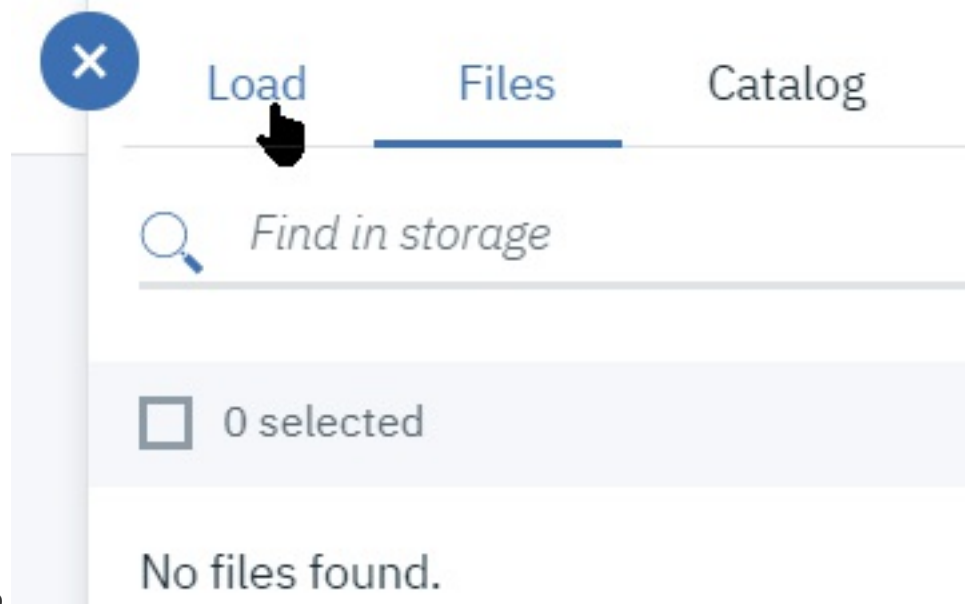

2. Initially the Data Assets list should be empty. If not opened yet, open the Data Pane by selecting the

Find and add data

`1001` icon at top right:

Load   Files   Catalog

Find in storage

☐ 0 selected

No files found.

3. Select the `Load` tab
4. Click Browse to add files that you will have downloaded to your computer's disk from the Box folder. Among the files that we will need, you can start loading the following ones:
   The source data for these files can also be found at their original location on the web.

File name	Original location
`GoSales_Tx.csv`	https://dataplatform.cloud.ibm.com/exchange/public/entry/view/ba9a3008817bbf
`cars.csv`	https://dataplatform.cloud.ibm.com/api/exchange/actions/download-dataset/c81e9be8daf6941023b9dc86f303053b
`201701-citibike-tripdata.csv`	https://www.citibikenyc.com/system-data

5. Once done, the files will show up in the `Data assets` list.

Quick assessment of the Data Asset

You can quickly browse through sample from one of the Data Assets, so as to get an idea of the data format.

For example:

1. From the `Assets` tab in the project page, select the `cars.csv` data asset by clicking on it
2. This opens a preview of the data in tabular format. Data set has 9 columns and 406 rows.

> Note that you can change the Data Asset metadata such as the Description and the Tags from the Information side bar and clicking on the pencil to go in edit mode.