



Lab Watson Studio Basics

Summary

In this lab you will learn how to:

- Create and add files to a project
- Generate code which imports a pandas dataframe into a notebook

Instructions

1. Create Project and Add Services

- a. On the main IBM Watson page display the Get started view and click on [“New project”](#)
- b. Select the [“Standard”](#) project tile and click on [Create Project](#)
- c. Fill in the screen fields and create the project:
 - i. Enter [“Customer_Churn_{Initials}”](#) for Name
 - ii. Write a brief description for this project
 - iii. Select [Create](#) to create the new project
- d. Select the [Settings](#) tab and scroll to [“Associated services”](#)
- e. Click on [“Add service → Watson”](#). It is assumed that all necessary services were provisioned prior to the start of this lab. If they do not exist and you have permission within the account, then create a Lite instance of the service as described below
- f. Click on Add in the [“Machine Learning”](#) box
 - i. If an existing service instance is available for you then select it and click on [Select](#) --OR—
 - ii. Select [New](#)
 1. Select a Lite instance and click on [Create](#)
 2. Accept the defaults on the [Confirm Creation](#) pop-up and click on [Confirm](#)
- g. Return to the project [Assets](#) view



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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.

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USE TO

- Prepare and visualize data
- Analyze data in notebooks
- Train models

Create a project from a sample or file

Get started fast by loading existing assets. Choose a project file from your system, or choose a curated sample project.

USE TO

- Learn by example
- Build on existing work
- Run tutorials

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New project

Define project details

Name

Description

Define storage

1 Select storage service

Target Cloud Object Storage Instance

Choose project options

☒ Restrict who can be a collaborator

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

Cancel

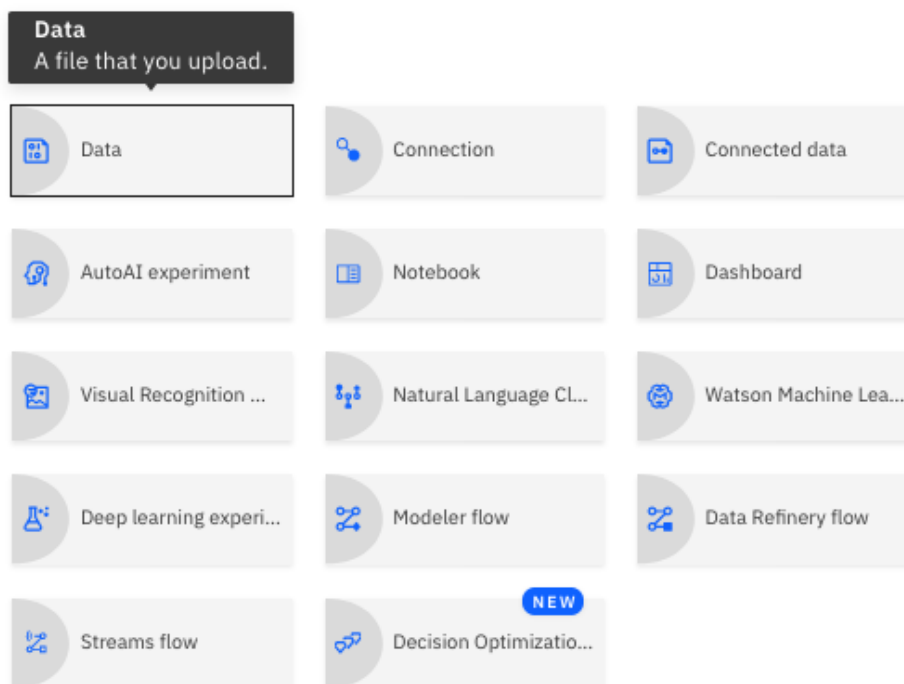
Create



2. Add Data Assets from a [Local File System](#)

- a. Select the [+ Add to project](#) in your project
- b. Select [Data](#) from the [Find and add](#) data pane
- c. Load Lab files
 - i. Click on [browse](#) and navigate to the directory with the lab files
 - ii. Select the 2 files to be added to the project.
 - iii. Optionally - Instead of [browse](#) you can drag and drop the files to the Load pane
- d. Verify that the assets you chose were added to the list of Data assets in the project

Choose asset type





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My projects / Customer_Churn_MM

Overview Assets Environments Jobs Deployments Access Co

What assets are you looking for?

▼ Data assets

0 assets selected.

<input type="checkbox"/>	Name	Type	Created by	Last modified	↓
<input type="checkbox"/>	CSV LoanStats3a-Reduced.csv_shaped.csv	Data Asset	Meredith Mante	Apr 07, 2020, 6:26 PM	
<input type="checkbox"/>	CSV LoanStats3a-Reduced.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:55 PM	
<input type="checkbox"/>	CSV LoanStats3a-Reduced.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:54 PM	
<input type="checkbox"/>	CSV customer_churn.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:54 PM	
<input type="checkbox"/>	CSV customer.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:54 PM	
<input type="checkbox"/>	CSV new_customer_churn_data.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:54 PM	
<input type="checkbox"/>	CSV churn.csv	Data Asset	Meredith Mante	Apr 07, 2020, 4:54 PM	

Data

Load Files Catalo

Drop files here or [browse](#) for files to upload.

3. Loading a Blank Notebook

- In the project asset list scroll down and select [New Notebook](#) next to [Notebooks](#)
- Select [Blank](#) from top of the screen
- Enter a Name [BlankNB_{Initials}](#) and Description
- Select the following options:
 - Language – [Python 3.6](#)
 - Runtime – [Default Python 3.6 Free \(1 vCPU and 4 GB RAM\)](#)
- Select [Create Notebook](#) at bottom of the screen
- Select [Markdown](#) in the [Format](#) box dropdown and enter some description text in the notebook cell
- Select [Insert → Insert Cell Below](#)
- Select the [Find and add data “1000” icon](#) from the top right of the screen
- Under [Files → customer.csv](#) select the [Insert to Code](#) drop down
- Select [Insert pandas Data Frame](#) to add code to your notebook
- Select [Insert → Insert Cell Below](#)
- Enter the following lines of code into the cell:

```
import seaborn as sns
import matplotlib.pyplot as plt

sns.pairplot(df_data_1)
```

- Run the cells and review the plot.



n. Click on [File](#)→[Save](#) to save your notebook

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My projects / Customer_Churn_MM

Launch IDE

Add to project

New Notebook +

Notebooks

Name	Shared	Scheduled	Status	Language	Last editor	Last modified
BlankNB_MM				Python 3.6	Meredith Mante	May 08, 2020
Customer Churn Create PY3 V3 Single				Python 3.6 With Spark	Meredith Mante	Apr 07, 2020
test notebook				Python 3.6	Meredith Mante	May 08, 2020
Customer Churn Deploy PY3 Beta2				Python 3.6	Meredith Mante	May 08, 2020
Customer Churn Create PY3 V3 Single				Python 3.6	Meredith Mante	May 08, 2020

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New notebook

Blank

From file

From URL

Name

Type notebook name here

Description (optional)

Type your description here

Select runtime

Default Python 3.6 XS (2 vCPU 8 GB RAM)

The selected runtime has 2 vCPU and 8 GB RAM. It consumes 1 capacity unit per hour. [Learn more](#) about capacity unit hours and Watson Studio pricing plans.

Language

☒ Python 3.6

Cancel

Create



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MM

My projects / Customer_Churn_MM / BlankNB_MM

File Edit View Insert Cell Kernel Help

Not Trusted | Python 3.6

Format

Code

In []:

Data

Files

Connections

Upload one file at a time. All file types accepted. 5 GB max file size.

Drag and drop files here or upload.

LoanStats3a-Reduced.csv

Insert to code

pandas DataFrame

Credentials

pandas DataFrame