

# Lab-1: Setup Environment

## Introduction

This lab will set up the Watson Studio environment for subsequent labs and introduce you to the Project features of Watson Studio. Watson Studio is an integrated platform of tools, services, data, and meta-data to help companies and agencies accelerate their shift to be data driven organizations. The platform enables data professionals such as data scientists, data engineers, business analysts, and application developers collaboratively work with data to build, train, deploy machine learning and deep learning models at scale to infuse AI into business to drive innovation. Watson Studio is designed to support the development and deployment of data and analytics assets for the enterprise.

## Objectives

The goal of this lab is to familiarize the user with the Project features of Watson Studio, and to set up the environment for subsequent labs. Projects are a core component of Watson Studio. Projects enable you to organize your analytic and data assets in one place. Projects are also the home base for collaboration. Colleagues can be added as collaborators on a project with administrator, editor, or viewer access.

After completing this lab, you will be familiar with these features of Watson Studio.

1. Create a project
2. Create an object storage instance and associate it with the project
3. Associate an existing Watson Machine Learning service instance with the project
4. Add a collaborator to the project

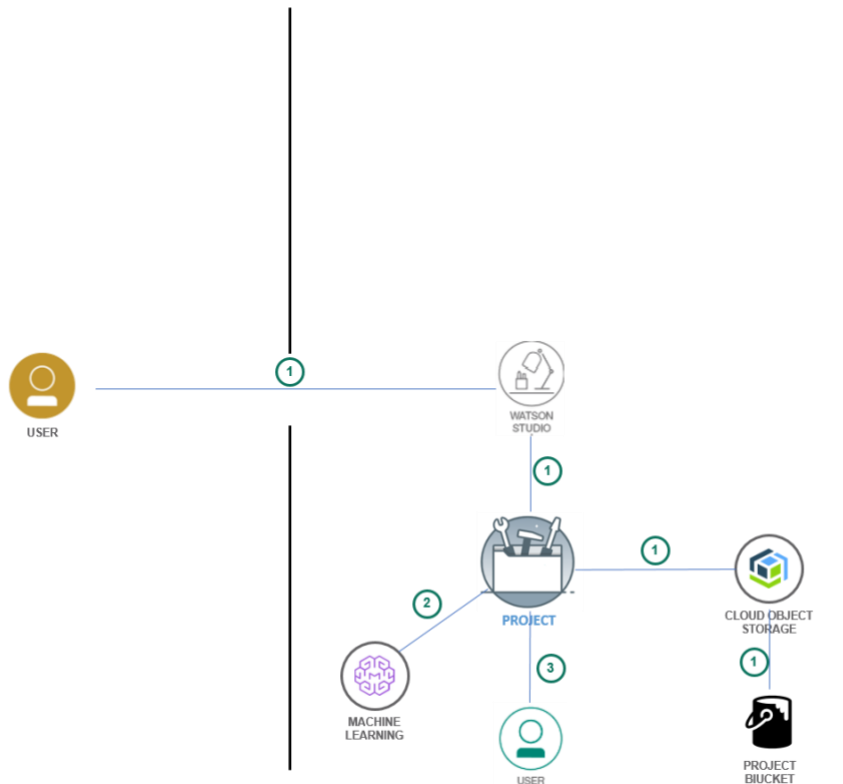
## Lab Flow

1. User creates a Watson Studio project. Object storage instance will be created if one does not exist.
2. User associates a Machine Learning service with the Watson Studio project.
3. User adds a collaborator to the project.

User

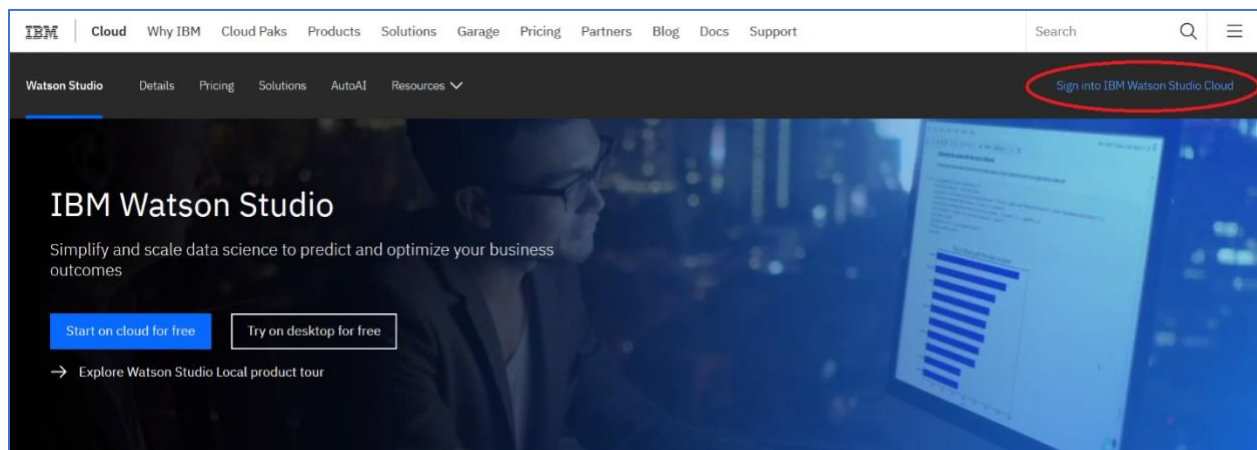
IBM Cloud

External



## Create a Project

1. Log into your Watson Studio account by typing in the url **datascience.ibm.com** in your Firefox or Chrome browser.
2. Click on **Sign into Watson Studio Cloud** (not Cloud sign-up/log-in)



3. Enter your Watson Studio user id and click **Continue**.

# Log in to IBM

IBMid

[Forgot IBMid?](#)

wsuser30000@gmail.com

☐ Remember me [i](#)

Continue

Don't have an account? [Create an IBMid](#)

Need help? [Contact the IBMid help desk](#)

4. Enter your **Password** and click **Log in**.

# Log in to IBM

Logging in as wsuser30000@gmail.com [Not you?](#)

Password

[Forgot password?](#)

.....




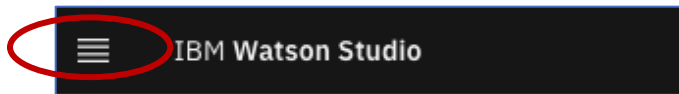
☐ Remember me [i](#)

Log in

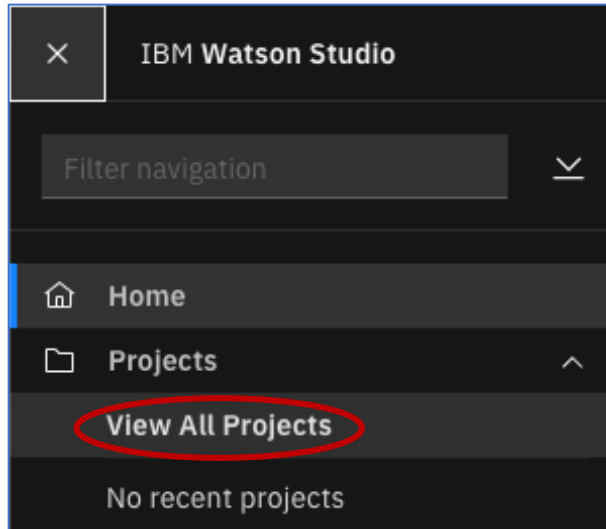
Don't have an account? [Create an IBMid](#)

Need help? [Contact the IBMid help desk](#)

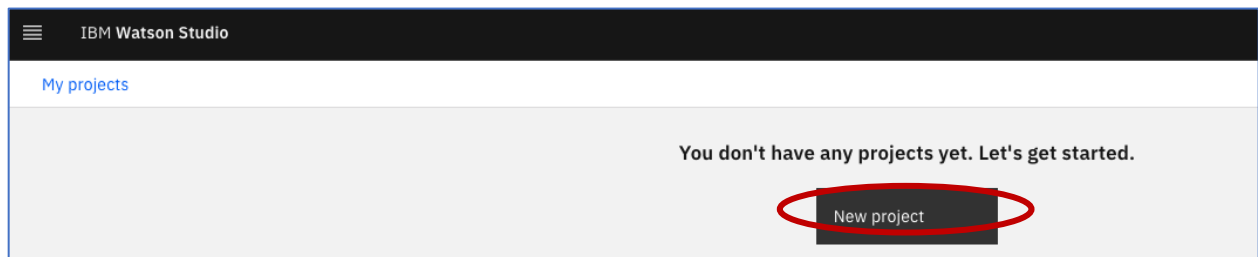
5. Click on the hamburger icon .



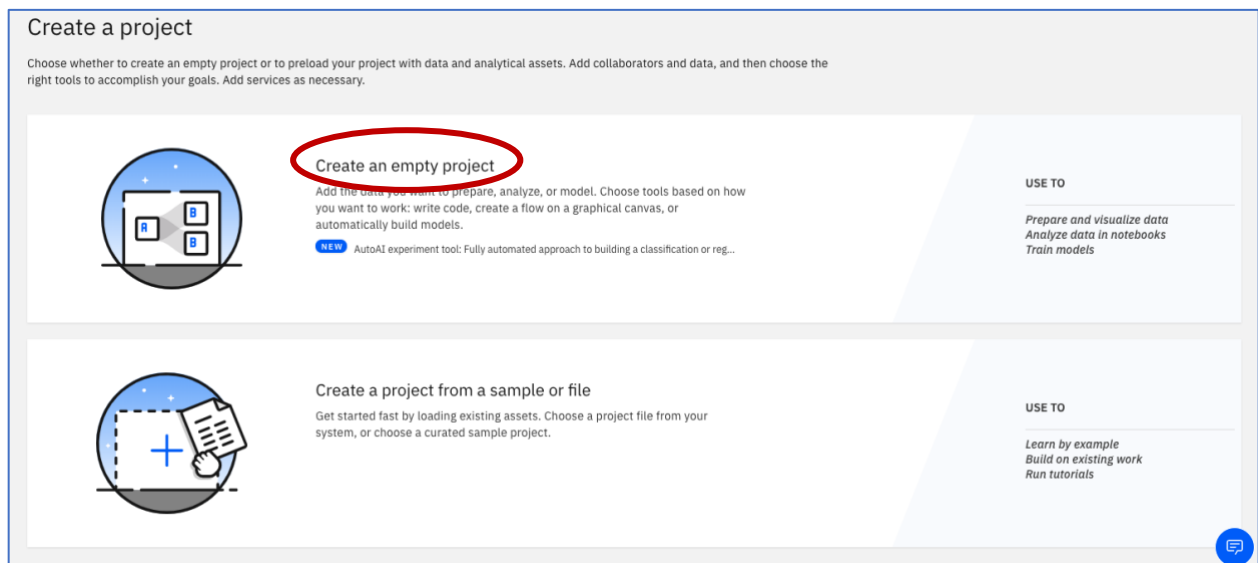
6. Click on **Projects**, and then click on **View All Projects**



7. Click on **New Project**.



8. Click on **Create an empty project**.



9. Enter “Watson Studio Labs” for the **Name**, optionally enter a **Description**, make sure to uncheck **Restrict who can be a collaborator** (if it’s checked), and in **Define Storage** click on **Add** to add an object storage instance.

New project

**Define project details**

Name

Watson Studio Labs

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

10. Click on **Lite**, and then click on **Create**

Pricing Plan: Monthly Process shown above reflect the: [United States](#)

PLAN	FEATURES	PRICING
<input checked="" type="radio"/> Lite	<p><b>1 COS Service Instance</b></p> <p>Storage up to 25 GB/mo.</p> <p>Up to 20,000 GET requests/mo.</p> <p>Up to 2,000 PUT requests/mo.</p> <p>Up to Data Retrieval 10 GB/mo.</p> <p>Up to 5GB Public Outbound</p> <p>Applies to aggregate total across all storage bucket classes</p> <p>The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security.</p>	Free
<input type="radio"/> Standard	<p><b>There is no minimum fee, so you pay only for what you use.</b></p>	Expand each section to view details

Cancel

**Create**

11. Click **Confirm**.

Confirm Creation

×

Plan

Lite

Resource group

Default

Service name

cloud-object-storage-tw

Cancel

Confirm

12. Click **Refresh**.

New project

Define project details

Name

Watson Studio Labs

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

13. Click **Create**.

New project

**Define project details**

Name  
Watson Studio Labs

Description  
Project description

**Choose project options**

☐ Restrict who can be a collaborator ⓘ

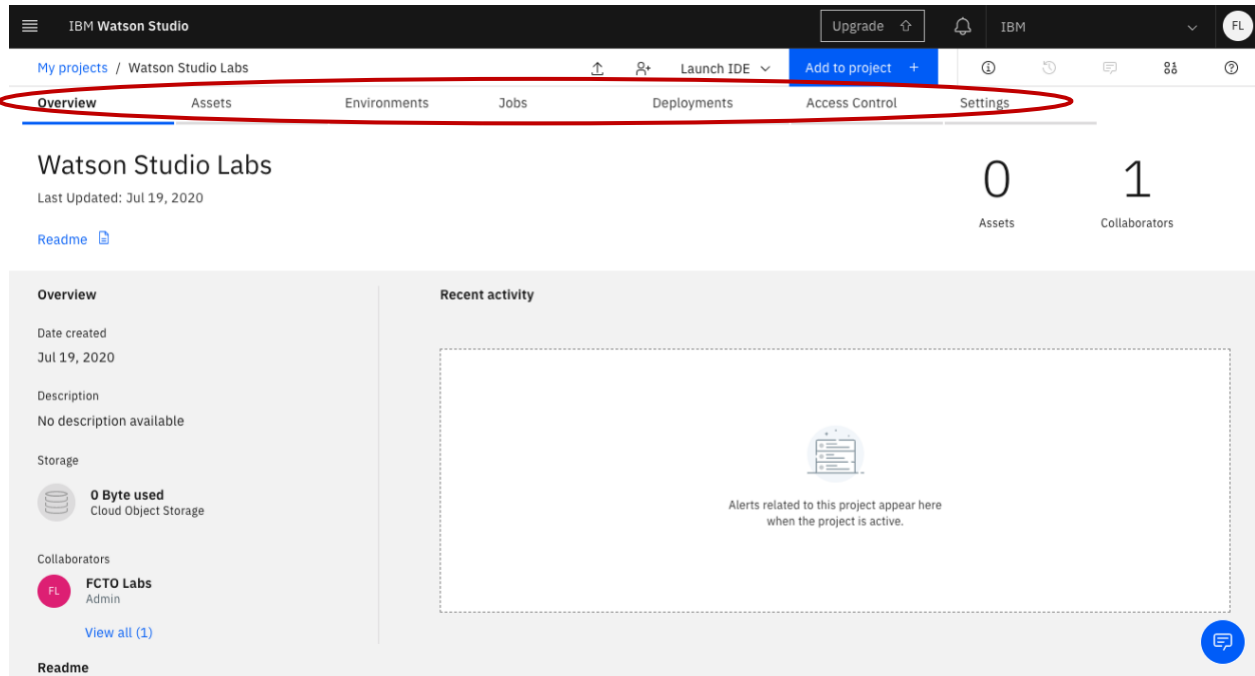
Project includes integration with [Cloud Object Storage](#) for storing project assets.

**Storage**  
cloud-object-storage-tw

Cancel Create

**14.** The Project **Overview** page is shown. This page provides summarized information about the project. In addition to the Overview page, are six other pages described below.

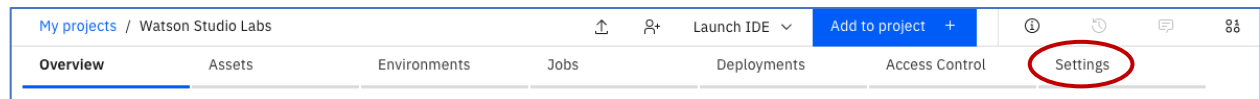
- a. **Assets Page** – Analytics and Data assets can be added to the project from this page.
- b. **Environments Page** - Provides information on the current notebook environments that are defined, lists the active notebook environments currently running, and enables users to create custom notebook environments.
- c. **Jobs Page** – Provides the interface to the job subsystem. This replaces the separate UIs to set up and run jobs for Notebooks and the Data Refinery. This is a new feature in Watson Studio Cloud version.
- d. **Bookmarks Page** - Lists artifacts from the Community that are bookmarked in this project.
- e. **Deployments Page** – Lists the deployed models
- f. **Access Control** – Lists the project collaborators and enables users to add/remove collaborators.
- g. **Settings** – Enables users to view and set project attributes.



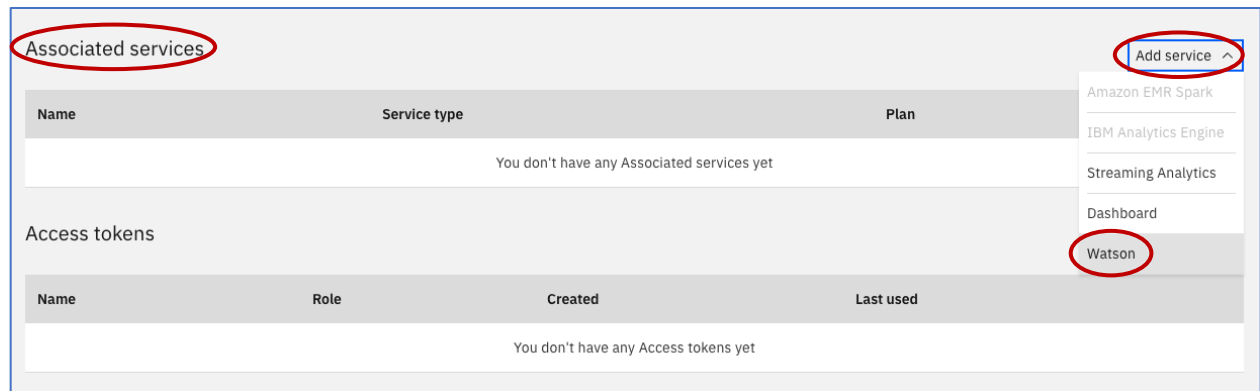
## Associate a Watson Machine Learning Service to the Project

To save and deploy machine learning models, a Watson Machine Learning service must be created (if one doesn't exist) and added to our project.

1. Click on **Settings** to navigate to the Project **Settings** page.




2. Scroll down to **Associated Services**, click on **Add service**, click on **Watson**.



3. Click on **Add** in the **Machine Learning** tile.






### Discovery

Add a cognitive search and content analytics engine to applications.


Add



### Language Translator

Translate text, documents, and websites from one language to another. Create industry or region-specific t


Add



### Machine Learning

IBM Watson Machine Learning - make smarter decisions, solve tough problems, and improve user outcomes

Add



### Natural Language Classifier

Natural Language Classifier uses advanced natural language processing and machine learning techniques to creat

Add

4. Newer Watson Studio accounts come with the WatsonMachineLearning instance already created. Select **Existing**, select **WatsonMachineLearning** for the **Existing Service Instance**, and click on **Select**. If you don't have an existing service, click on New and follow the instructions to create a **Lite** Watson Machine Learning service.

## Machine Learning

Existing

New

Filter by: 1 x Default 1 x Dallas None

Existing Service Instance

WatsonMachineLearning

Select

Cancel

5. The **WatsonMachineLearning** service is associated with the project.

Associated services

Add service

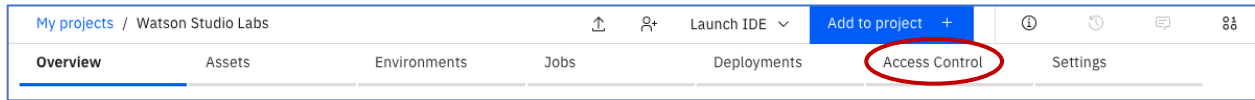
Name	Service type	Plan
WatsonMachineLearning	Watson - Machine Learning	

## Add a Project Collaborator

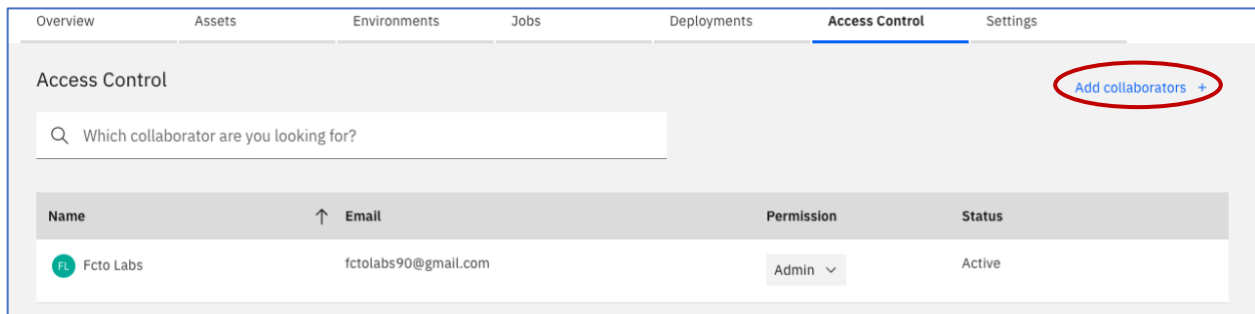
Colleagues can gain access to a project's data and analytic assets by being made a collaborator. Permissions are based on the assigned role. The roles are administrator, editor, and viewer.

We will add a collaborator with a role of **Editor**.

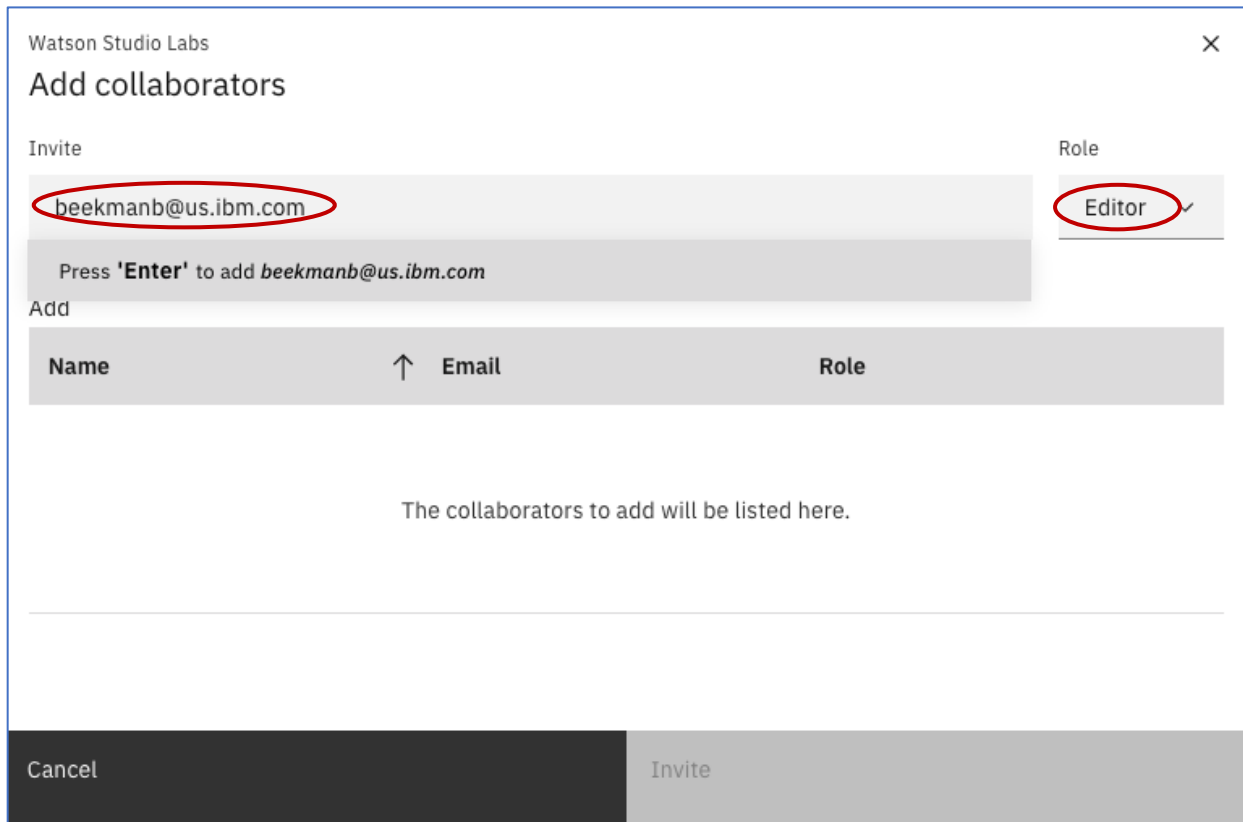
1. Click on the **Access Control** tab.



2. Click on **Add collaborators**.



3. For **Invite**, enter **beekmanb@us.ibm.com**, press the <Enter> key, select Editor from the **Access Level** dropdown, and click on **Invite**.



4. The collaborator is added to the list of Collaborators on the right-hand side. Click on **Invite**.

Watson Studio Labs

### Add collaborators

Invite

Add more people...

Role: Editor

Add 1

Name	Email	Role
BB Bernard Beekman	beekmanb@us.ibm.com	Editor

Cancel Invite

5. The collaborator is added.

Access Control

Which collaborator are you looking for?

Name	Email	Permission	Status
BB Bernard Beekman	beekmanb@us.ibm.com	Editor	Active
FL Fcto Labs	fctolabs90@gmail.com	Admin	Active

## You have completed Lab-1!

- ✓ Created a project
- ✓ Created an object storage instance and associated it with the project
- ✓ Associated an existing Watson Machine Learning service instance with the project or created a new service instance and associated it with the project.
- ✓ Added a collaborator to the project