

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

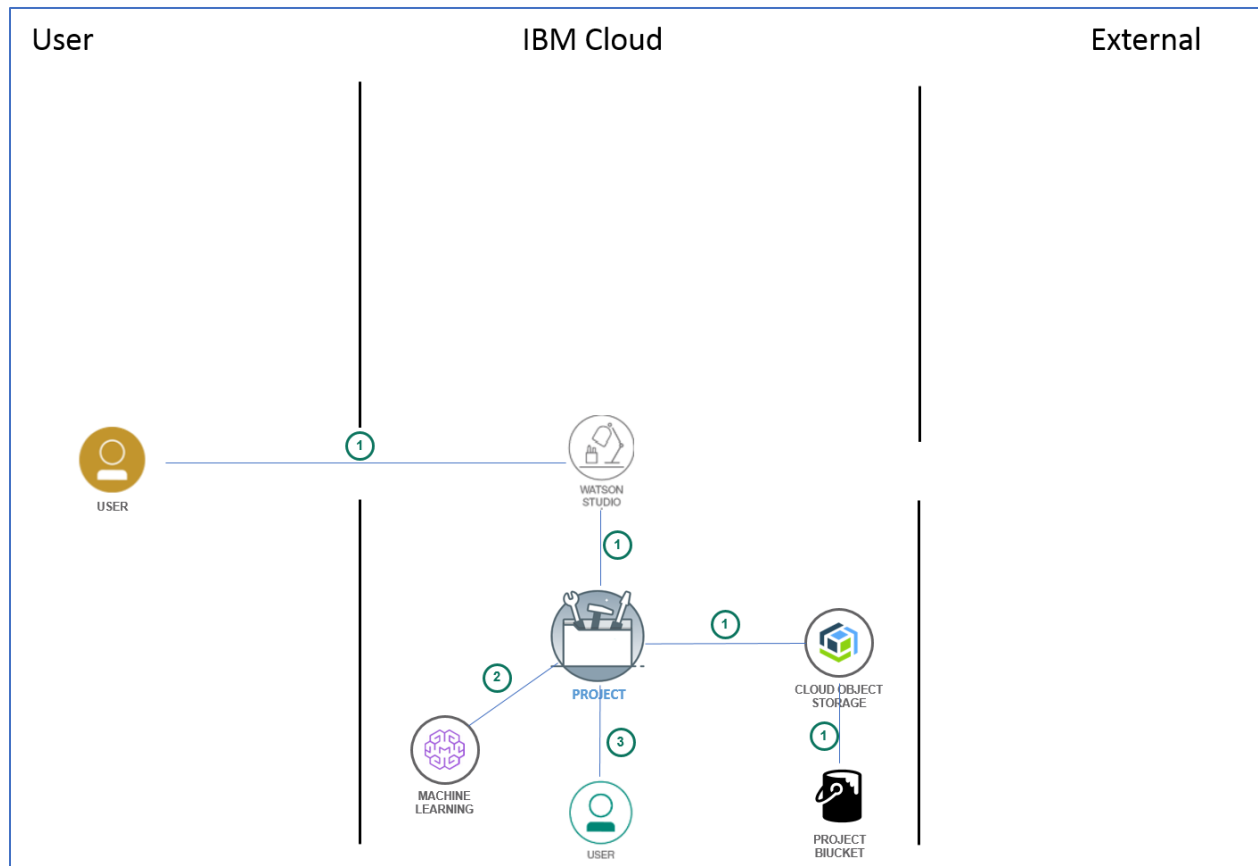
The goal of this lab is to familiarize the user with the Project features of Watson Studio, and to set up the environment for subsequent labs. Projects are a core component of Watson Studio. Projects enable you to organize your analytic and data assets in one place. Projects are also the home base for 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.



Create a Project

1. If you are not logged into Watson Studio, log into your Watson Studio account by typing in the url **datapatform.cloud.ibm.com** in your Firefox or Chrome browser. Otherwise, skip to step 5.
2. Select the **region**, enter the **Username** and the **Password** and click **Log-In**.

IBM Cloud Pak for Data

Log in to IBM Cloud Pak for Data

Starter edition

Need an account? [Sign up and try for free](#)

You will log into Dallas ▾

Username [Forgot ID?](#)

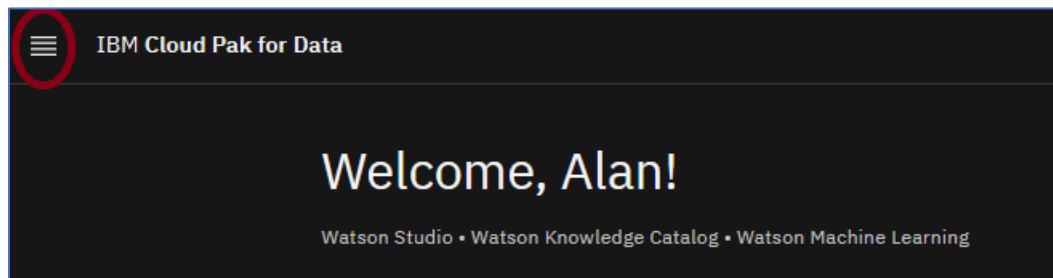
wsuser54000@gmail.com

Password [Forgot password?](#)

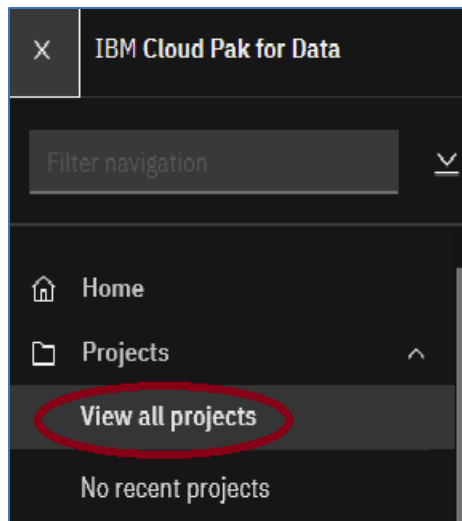
••••••••

Log in →

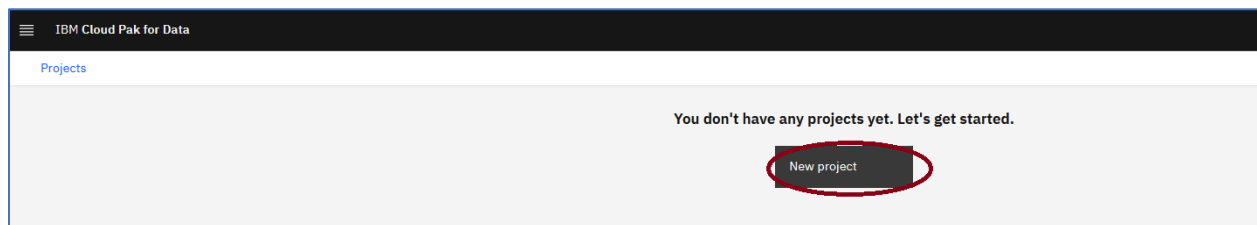
3. Click on the hamburger icon ☰.



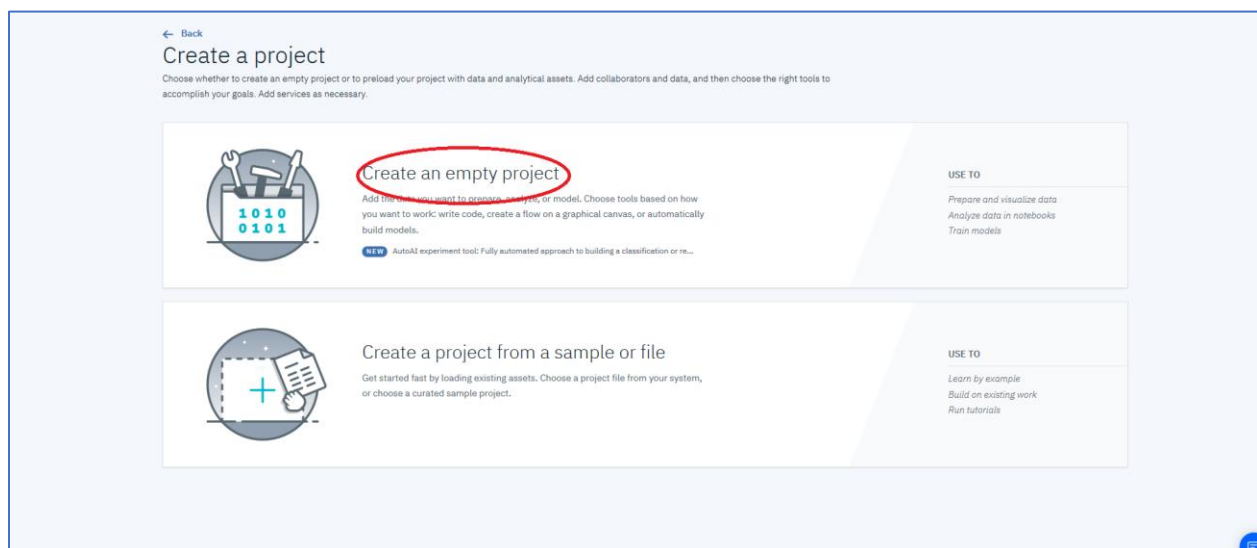
4. Click on **Projects**, and then click on **View All Projects**



5. Click on **New Project**.



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



7. 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. Note if you already have object storage defined (previously used Watson Studio), then skip to step 10.

New project

Define project details

Name

Watson Studio Labs

Description

Project description

Define storage

1 Select storage service

Add

Add an object storage instance, and then return to this page and click Refresh.

2 Refresh

Choose project options

☐ Restrict who can be a collaborator ⓘ

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

8. Make sure the **Lite** plan is selected, and then click on **Create**

Cloud Object Storage

Author: IBM • Date of last update: Sep 23, 2020 • [Docs](#) • [API Docs](#)

Create About

Pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

Plan	Features	Pricing
Lite	1 COS Service Instance Storage up to 25 GB/month Up to 2,000 Class A (PUT, COPY, POST, and LIST) requests per month Up to 20,000 Class B (GET and all others) requests per month Up to 10 GB/month of Data Retrieval Up to 5GB of egress (Public Outbound) Applies to aggregate total across all storage bucket classes The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security. Lite plan services are deleted after 30 days of inactivity.	Free
Standard	There is no minimum fee, so you pay only for what you use. See pricing details	

Cloud Object Storage

Region: Global
Plan: Lite
Service name: Cloud Object Storage-yp
Resource group: Default

Create

9. Note that it may take a minute for your storage service to show up. Click **Refresh**.

New project

Define project details

Name

Watson Studio Labs

Description

Project description

Define storage

1 Select storage service

Add

Add an object storage instance, and then return to this page and click Refresh.

2 Refresh

Choose project options

☐ Restrict who can be a collaborator ⓘ

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

10. 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-go

Cancel Create

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

- Assets Page** – Analytics and Data assets can be added to the project from this page.
- 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.
- 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.
- Access Control** – Lists the project collaborators and enables users to add/remove collaborators.
- Settings** – Enables users to view and set project attributes.

Projects / Watson Studio Labs

Overview Assets Environments Jobs Access Control Settings

Watson Studio Labs
Last Updated: Oct 12, 2020

Readme

Overview

Date created
Oct 12, 2020

Description
No description available

Storage
0 Byte used
Cloud Object Storage

Collaborators
Alan Doe
Admin

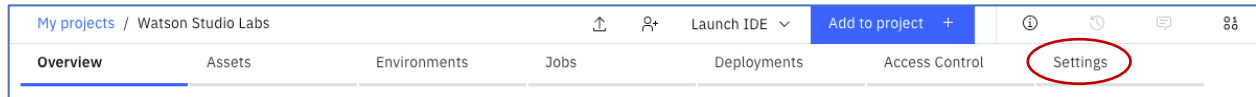
Recent activity

Alerts related to this project appear here when the project is active.

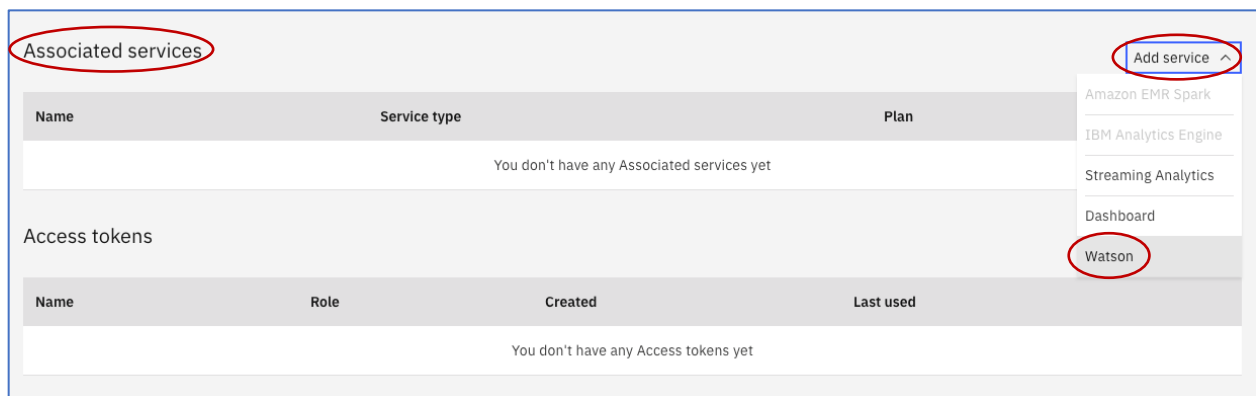
Associate a Watson Machine Learning Service to the Project

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.

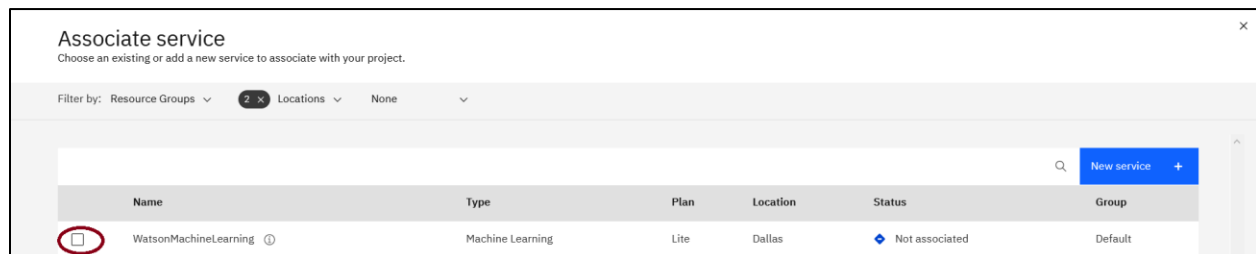
1. Click on **Settings** to navigate to the Project **Settings** page.



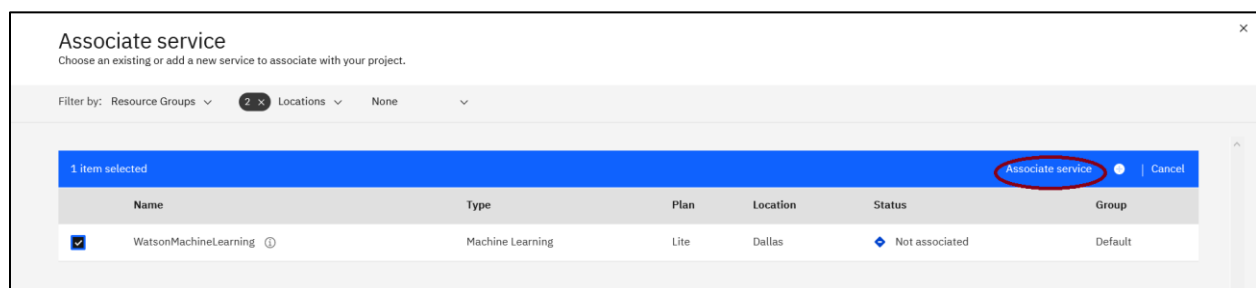
2. Scroll down to **Associated Services**, click on **Add service**, click on **Watson**.




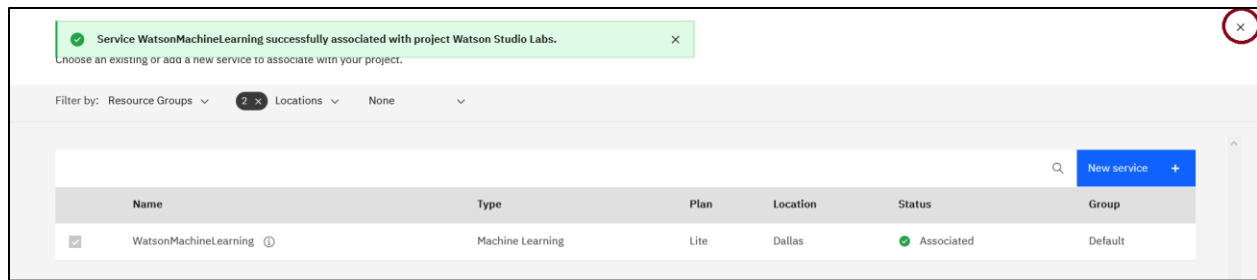
3. Newer Watson Studio accounts come with the WatsonMachineLearning instance already created. For those accounts the WatsonMachineLearning service will be displayed. Click on the checkbox next to WatsonMachineLearning. Otherwise skip to step 6.



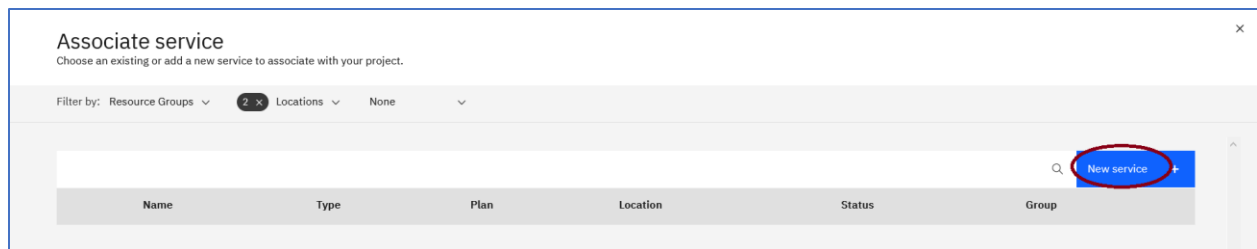
4. Click on **Associate service**.



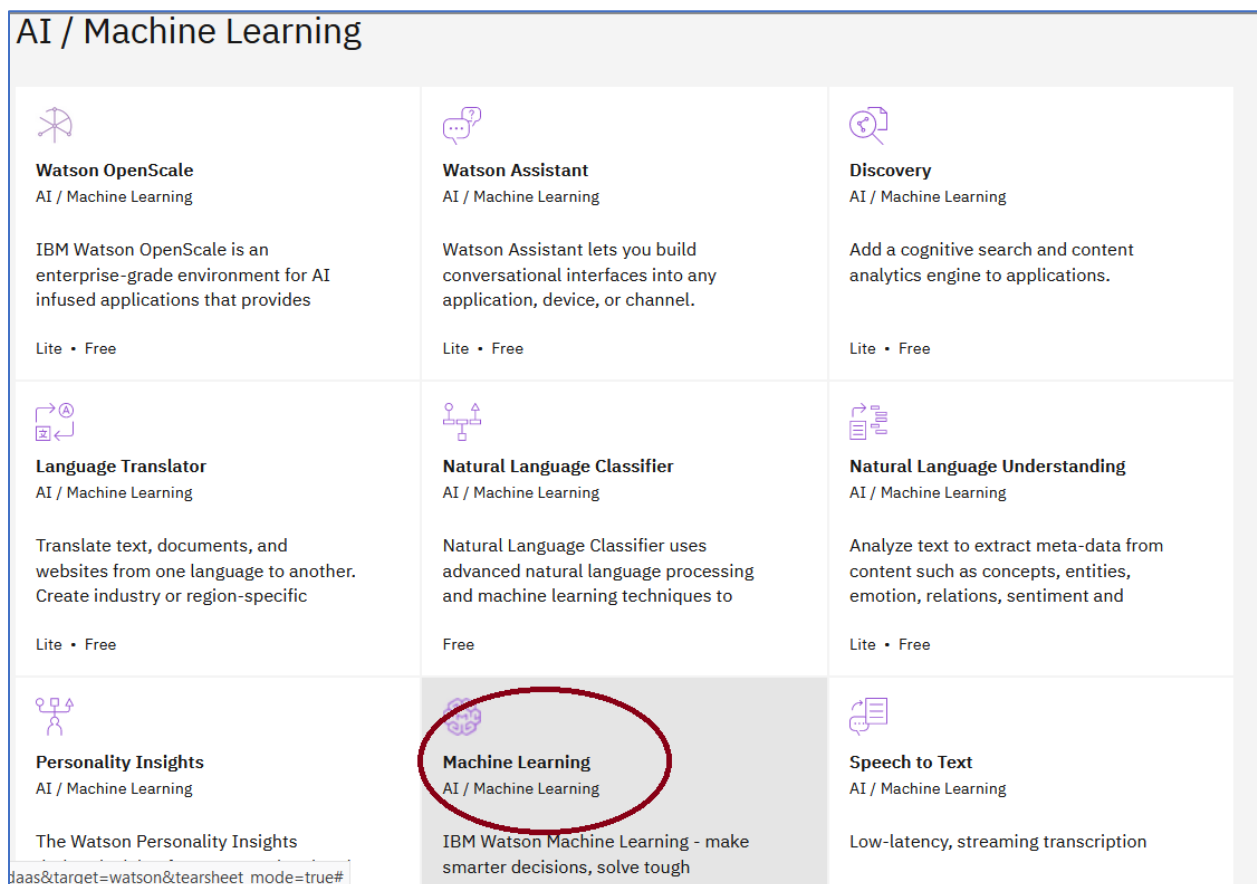
5. The WatsonMachineLearning service is now associated with the project. Click on the close icon.  Skip to the next section- **Add a Project Collaborator**.



6. The following steps are to be followed if you don't have an existing WatsonMachineLearning service listed, click on **New service**.



7. Click on the **Machine Learning** tile.



8. Make sure the Lite Plan is selected. Scroll down and change the default name of the Machine Learning service to **WatsonMachineLearning**. Click **Create**.

Configure your resource

Service name:

Select a resource group:

Tags:

[View terms](#)

9. Click the check box next to WatsonMachineLearning.

Associate service

Choose an existing or add a new service to associate with your project.

Filter by: Resource Groups Locations

Name	Type	Plan	Location	Status	Group
<input type="checkbox"/> WatsonMachineLearning ⓘ	Machine Learning	Lite	Dallas	Not associated	Default

10. Click on **Associate service**.

Associate service

Choose an existing or add a new service to associate with your project.

Filter by: Resource Groups Locations

1 item selected

Name	Type	Plan	Location	Status	Group
<input checked="" type="checkbox"/> WatsonMachineLearning ⓘ	Machine Learning	Lite	Dallas	Not associated	Default

11. The WatsonMachineLearning service is now associated with the project.

Service WatsonMachineLearning successfully associated with project Watson Studio Labs.

Choose an existing or add a new service to associate with your project.

Filter by: Resource Groups Locations

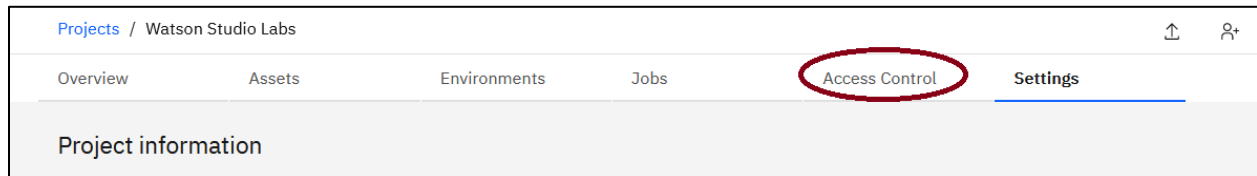
Name	Type	Plan	Location	Status	Group
<input checked="" type="checkbox"/> WatsonMachineLearning ⓘ	Machine Learning	Lite	Dallas	Associated	Default

Add a Project Collaborator

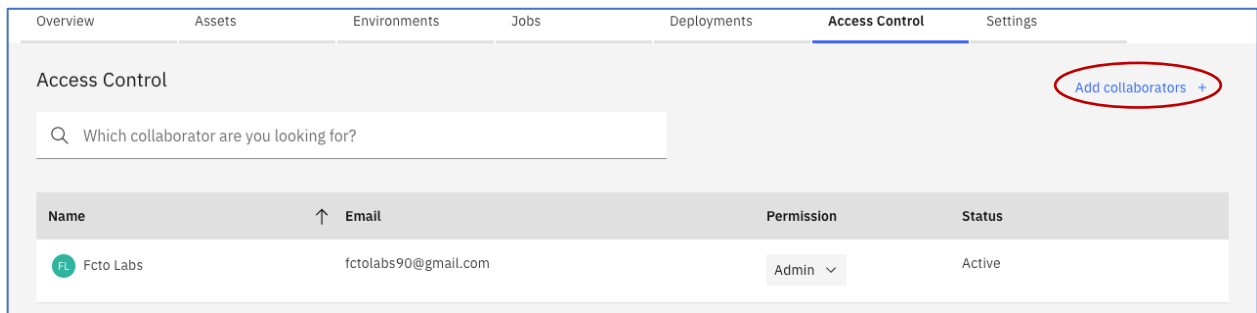
Colleagues can gain access to a project's data and analytic assets by being made a collaborator. Permissions are based on the assigned role. The roles are administrator, editor, and viewer.

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

1. Click on the **Access Control** tab (you may need to scroll to the top)



2. Click on **Add collaborators**.



3. For **Invite**, enter beekmanb@us.ibm.com, select **Editor** for the **Role**, press the <Enter> key.

Watson Studio Labs

Add collaborators

Invite

beekmanb@us.ibm.com

Role

Editor ✓

Press 'Enter' to add beekmanb@us.ibm.com

Add

Name	↑	Email	Role
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The collaborators to add will be listed here.

Cancel Invite

4. The collaborator is added to the list of Collaborators. 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			
<input type="text" value="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

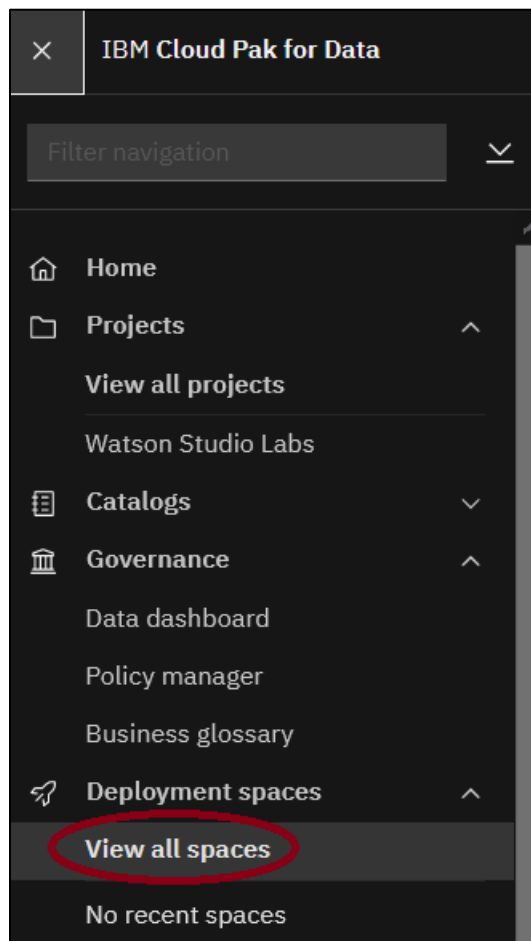
Create a Deployment Space

Deployment spaces are used to deploy models and manage deployments. A project can be associated with one deployment space. We will now create a deployment space.

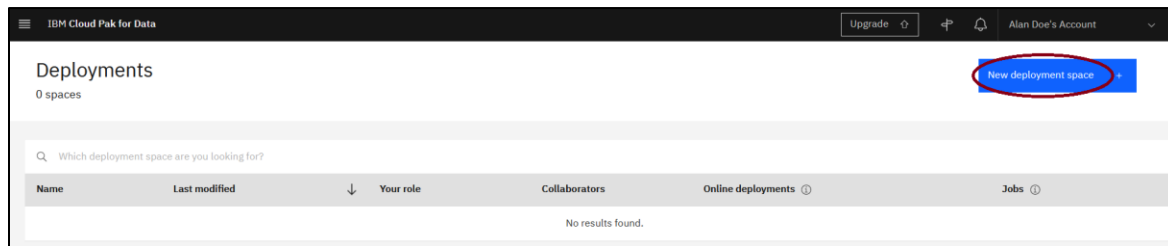
1. Click on the hamburger icon .



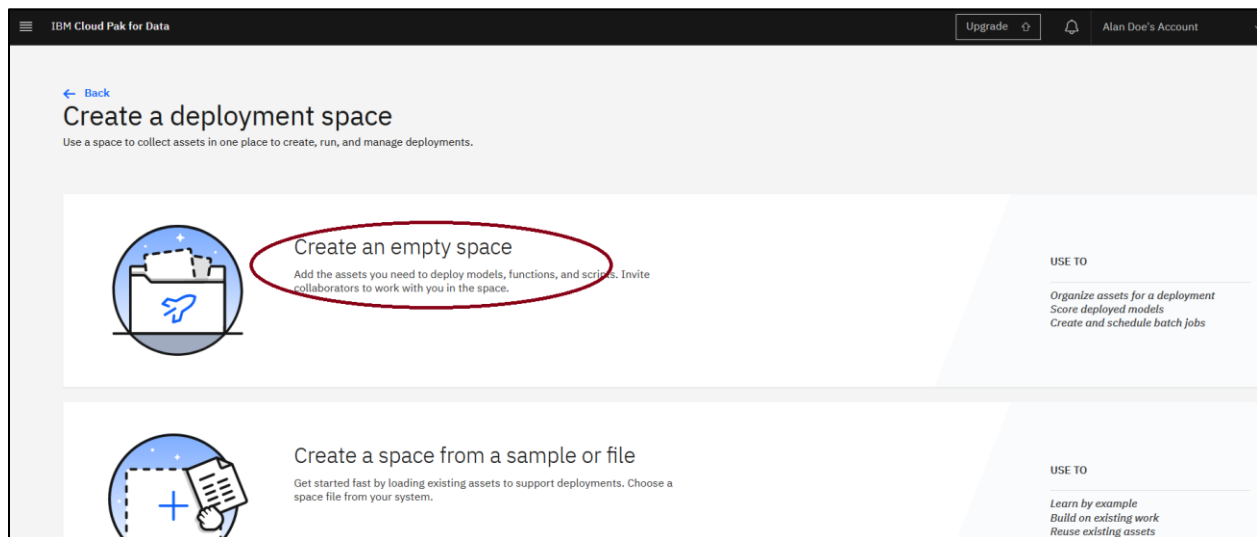
2. Click on **View all spaces** under **Deployment spaces**



3. Click on **New deployment space**.



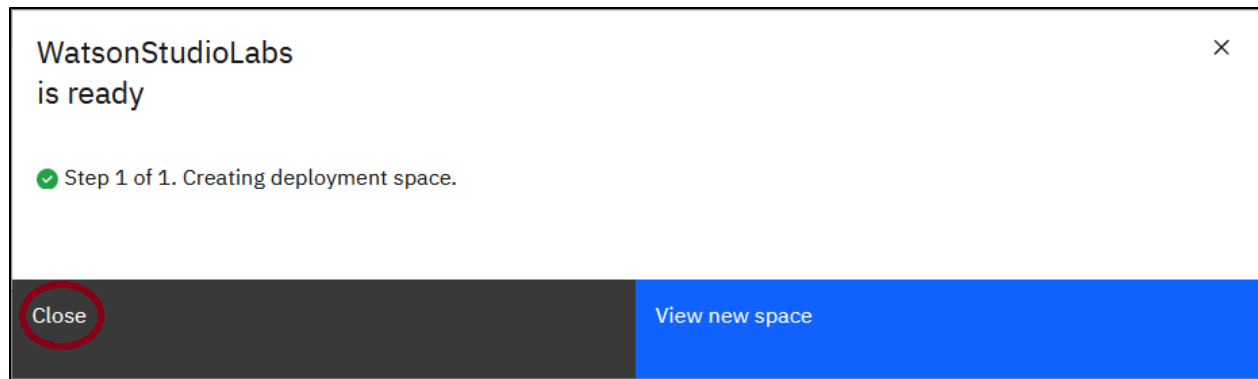
4. Click **Create an empty space**.



5. Enter **WatsonStudioLabs** for the **Name**, click on **WatsonMachineLearning** for the **machine learning service** and click **Create**.

The screenshot shows the 'Define space details' form. The 'Name' field contains 'Watson Studio Labs' and is circled in red. Below it is a 'Description (Optional)' text area. Then there is a 'Select storage service' dropdown menu with 'Cloud Object Storage-kh' selected. Below that is a 'Select machine learning service (Optional)' dropdown menu with 'WatsonMachineLearning' selected and circled in red. At the bottom right, there are 'Cancel' and 'Create' buttons, with the 'Create' button circled in red.

6. Click **Close**.



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
- ✓ Created a deployment space