

Lab-1: Set up Environment

Introduction

This lab will set up the Watson Studio environment for subsequent labs. 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.

Watson Studio together with Watson Knowledge Catalog and Watson Machine Learning services work seamlessly to comprise the IBM Cloud Pak for Data starter edition. The user interface is branded IBM Cloud Pak for Data irrespective of which service is being used.

Objectives

The goal of this lab is to create a Watson Studio project. 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. Initiate Watson OpenScale Auto setup.

Create a Project

1. If you are not logged into Watson Studio, log into your Watson Studio account by typing in the url **dataplatfom.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?](#)

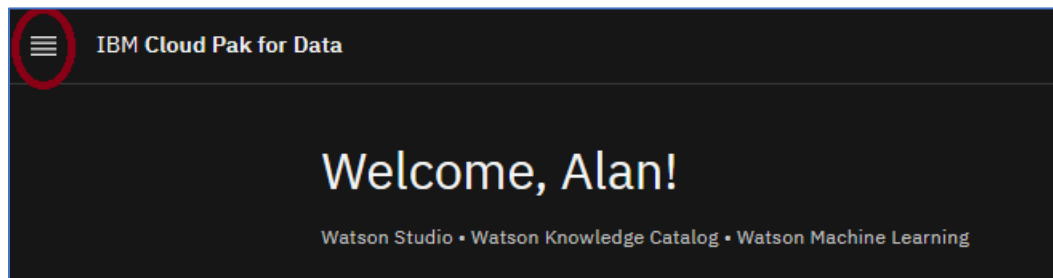
wsuser54000@gmail.com

Password [Forgot password?](#)

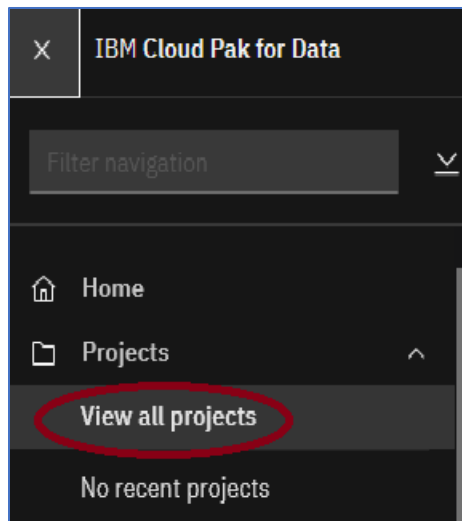
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Log in →

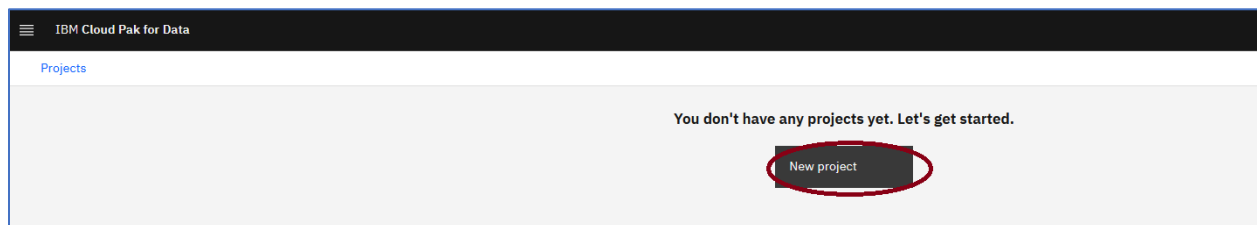
3. Click on the hamburger icon ☰.



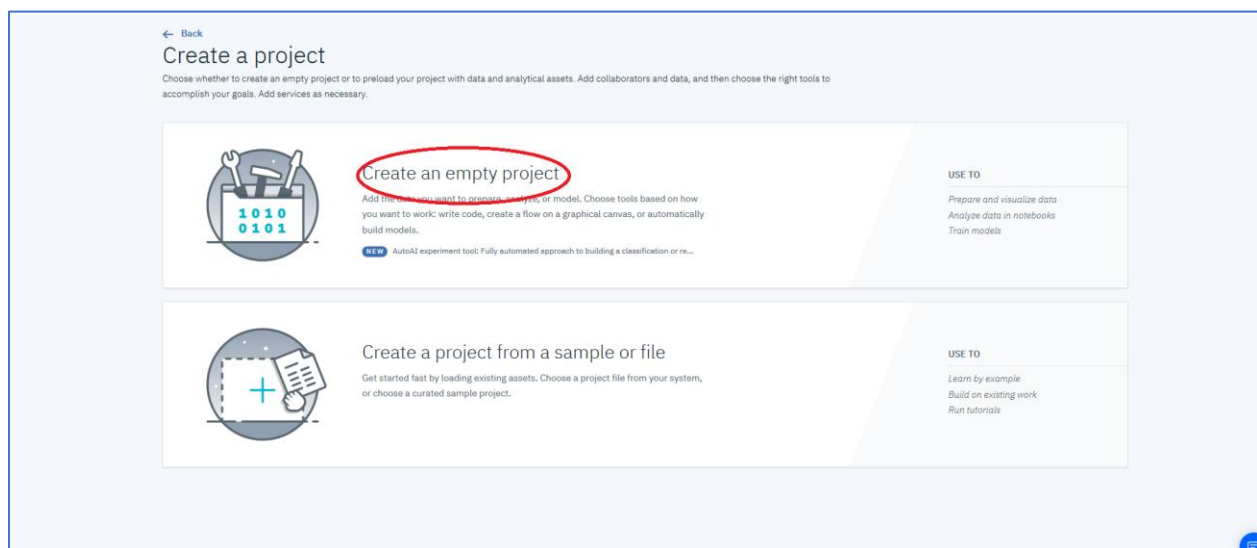
4. Click on **Projects**, and then click on **View All Projects**



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

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

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

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

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

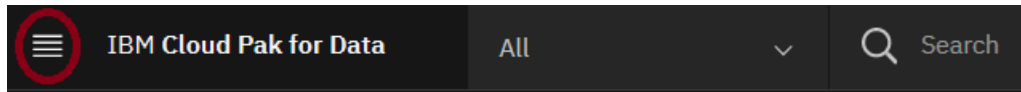
Recent activity

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

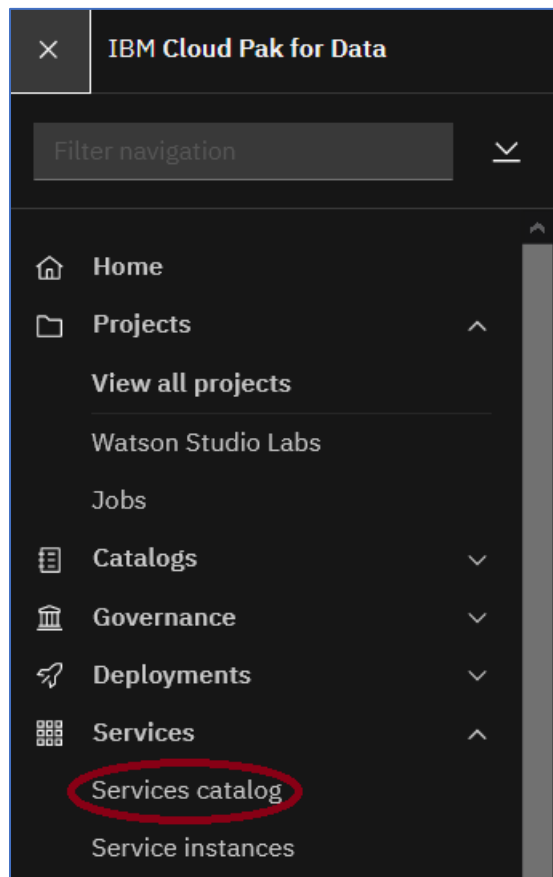
Provision Watson OpenScale

In this section, we will provision a Watson OpenScale service and run the AutoSetup as preparation for the Watson OpenScale lab. The AutoSetup takes about 10 minutes and it can run in the background so that it is completed by the time we start the OpenScale lab.

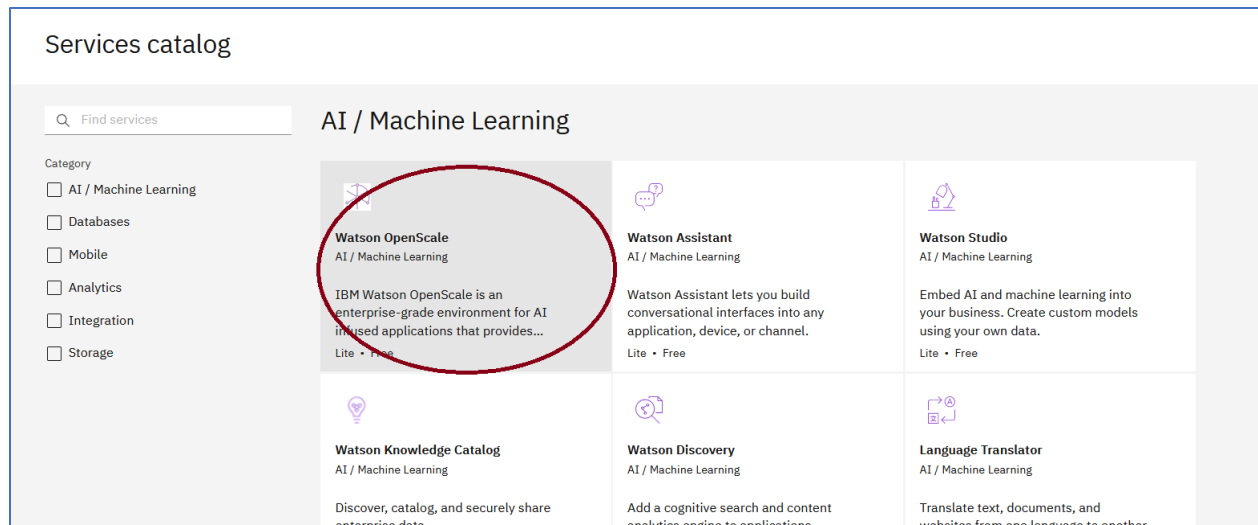
1. Click on the  icon.



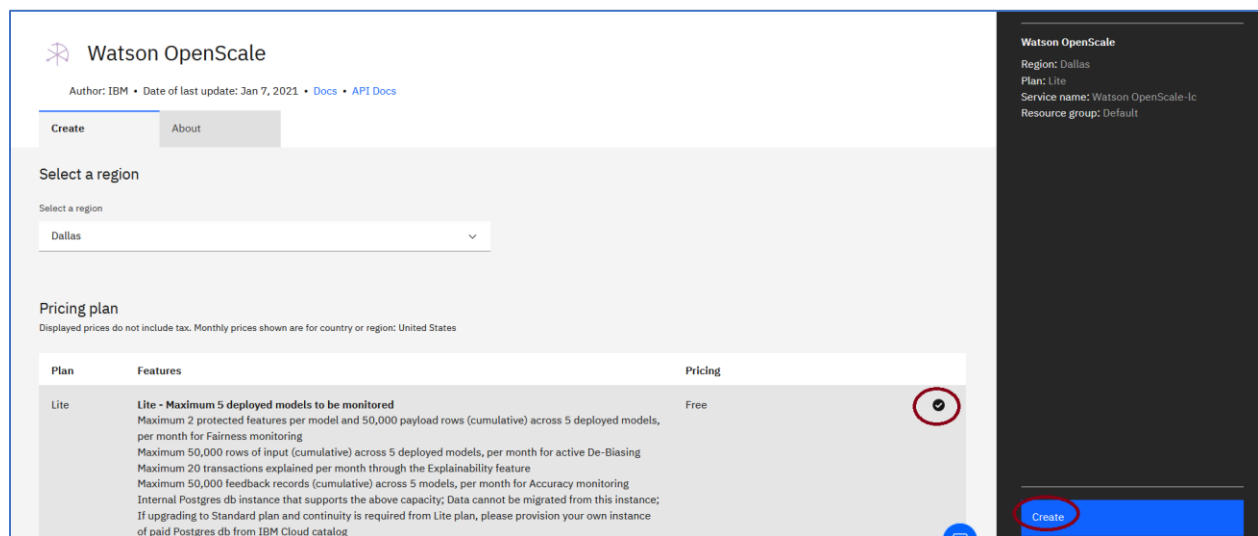
2. Click on **Services** and then **Service Catalog**.



3. Click on **Watson OpenScale**



4. Make sure the Lite plan is selected and click **Create**.



5. Click on the ⓘ icon on the right side of the Watson OpenScale entry.

Service instances

Your existing service instances are listed below. You must [upgrade](#) from a Lite account to a paid account before upgrading individual services.

Filter by: Resource Groups 2 x Locations 1 x wsuser59000@gmail.com Service Type Service Plan

Find service instances [Add service +](#)

Name	Type	Plan	Location	Group
Cloud Object Storage-zj	Cloud Object Storage	Lite	Global	Default
WatsonMachineLearning	Machine Learning	Lite	Dallas	Default
KnowledgeCatalog	Watson Knowledge Catalog	Lite	Dallas	Default
Watson OpenScale-lc	Watson OpenScale	Lite	Dallas	Default
WatsonStudio	Watson Studio	Lite	Dallas	Default

6. Click **Launch**

Name	Type	Plan	Location	Group
Cloud Object Storage-zj	Cloud Object Storage	Lite	Global	Default
WatsonMachineLearning	Machine Learning	Lite	Dallas	Default
KnowledgeCatalog	Watson Knowledge Catalog	Lite	Dallas	Default
Watson OpenScale-lc	Watson OpenScale	Lite	Dallas	Default
WatsonStudio	Watson Studio	Lite	Dallas	Default

7. Click **Launch Application**

Resource list /

Watson OpenScale-lc Active cpdaas [Details](#) [Actions...](#)

Getting started

Manage

Plan

Watson OpenScale

Welcome to Watson OpenScale, let's get started.

[Launch Application](#)

8. Click **Auto setup**.



Welcome to Watson OpenScale

Watson OpenScale maintains the health of AI models in pre-production and production environments by measuring model quality, fairness, and drift in both data and accuracy. It provides AI model transparency by explaining model transactions.

To get up-and-running, we'll set up a machine learning provider, database, and sample model for you. The process will take about 10 minutes. Ready to go?

[Manual setup](#)

[Auto setup](#)

9. The panel below will be displayed.

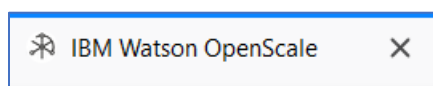


Hang tight!

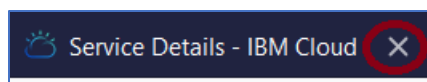
We're setting things up automatically. Follow the status messages below to review progress. This process will take about 10 minutes.

C [1/31] Initializing and setting up services

10. The Auto setup will run for approximately 10 minutes. Please make sure you **DON'T CLOSE** the **IBM Watson OpenScale** browser tab (shown below) where the Auto setup is running.



You can close the Service Details – IBM Cloud



You have completed Lab-1 Set up Environment!

- ✓ Created a project
- ✓ Created an object storage instance and associated it with the project
- ✓ Initiated the Watson OpenScale Auto setup.

