



IBM Developer
SKILLS NETWORK

In this lab you will explore Watson Studio

Objective for Exercise:

- How to create a Watson Studio service instance
- How to create a project in Watson Studio
- How to create project on Watson Studio
- How to load a notebook in Watson Studio.

If you have not created a Watson service before proceed with Step 1, otherwise go to Step 2

Exercise - Create a project on Watson Studio

Step 1: For New Users (with no Watson service):

For this project, you will use your IBM Watson Studio account from the previous chapter.

Go to the IBM Cloud Watson Studio page:

[Click here](#)

You will see the screen in the figure below. Click the icon in the top left corner:

Then click **Watson**, as shown below:

The screenshot shows the Watson landing page. On the left, a sidebar lists various IBM services: API Management, App Development, DevOps, Interconnectivity, Observability, Schematics, Security, Apple, Blockchain, Integrate, Managed Solutions, and Watson. The 'Watson' option is selected and highlighted with a red box. The main content area displays sections for Recent support cases, User access, Manage users, and IBM Cloud status.

You are in the Watson landing page. Click on the **Watson Services** menu.

The screenshot shows the 'Build with Watson' page. The left sidebar has 'Watson Services' highlighted with a red box. The main content area features a large graphic of a smiling face with blue lines and text sections for Getting Started, Build a chatbot, Extract insights, and Convert audio into text, each with a 'Get Started' button.

Then click **Browse Services** and on the page scroll down and choose **Watson Studio**

The screenshot shows the 'Browse Services' page. The left sidebar has 'Browse Services' highlighted with a red box. The main content area lists several services: Tone Analyzer, Language Translator, Watson Studio (highlighted with a red box), Machine Learning, and Knowledge Catalog. Each service has a brief description and a 'Lite • IBM' link.

Scroll down and select **Watson Studio - Lite**. To create a Watson service using the Lite plan, click **Create**.

The screenshot shows the 'Watson Studio' service details page. The left sidebar has 'Create' highlighted with a red box. The main content area includes sections for Select a region (with 'Dallas' selected) and Select a pricing plan (with 'United States' selected). The right side shows a summary table with Watson Studio, Free, Region: Dallas, Plan: Lite, Service name: Watson Studio-qo, and Resource group: Default.

Plan

Features

Pricing

Lite

4 authorized user
50 capacity units-hours monthly limit
Environment = # of capacity units required per hour
• 1 vCPU + 4 GB RAM = 0.5
• 2 vCPU + 8 GB RAM = 1
• 4 vCPU + 16 GB RAM = 2
• Decision Optimization + Environment = 5

The Lite plan for Watson Studio offers everything you need to become a better data scientist or domain expert in a collaborative environment.

Lite plan services are deleted after 30 days of inactivity.

Create

Add to estimate

View terms

Now click **Get Started.**

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Lavanya Sunde... Details Actions...

Watson Studio-qo Active Add tags ↗

Manage

Plan

Welcome to Watson Studio. Let's get started!

Get Started

Documentation From getting started to how to's — see what's available.

Community Check out our tutorials, articles, along with sample notebooks and data sets you can use to get going.

FEEDBACK

Step 2: For Existing Users (who already have Watson Service): Go to the IBM Cloud Dashboard and click Services.

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Lavanya Sunde... Upgrade account Create resource +

Dashboard

Resource summary 6 Resources

Services (selected)

Storage

Planned maintenance View all

For you

- Get started with using AI and Cloud Object Storage in 15 minutes.
- Get Started with Watson Studio
- Watson Assistant lets you build conversational interfaces into any application, device, or channel.
- Use Watson Assistant

FEEDBACK

News View all

- Coca-Cola European Partners Signs a Multiyear Agreement with IBM to Accelerate its Strategic Transformation Journey with...
- Daimler Expands Relationship with IBM; Adopts IBM public cloud for its security capabilities
- Wipro and IBM Collaborate to Help Clients

<https://cloud.ibm.com/resources/groups/resource-instance>

Recent support cases View all

User access Manage users

IBM Cloud status View all

When you click on Services, all your existing services will be shown in the list. Click the Watson Studio service you created:

IBM Cloud Search resources and offerings... Catalog Docs Support Manage Lavanya Sunde... Create resource +

Resource list

Name	Group	Location	Offering	Status	Tags
Analytics Engine-8h	Default	London	Analytics Engine	Active	—
Discovery-h0	Default	Dallas	Discovery	Active	—
Machine Learning-6r	Default	Dallas	Machine Learning	Active	—
Visual Recognition-wm	Default	Dallas	Visual Recognition	Active	—
Watson Studio-qo	Default	Dallas	Watson Studio	Active	—

Devices (0)

VPC infrastructure (0)

Clusters (0)

Cloud Foundry apps (0)

Cloud Foundry services (0)

Services (5)

- Analytics Engine-8h
- Discovery-h0
- Machine Learning-6r
- Visual Recognition-wm
- Watson Studio-qo**

Storage (1)

Network (0)

Cloud Foundry enterprise environments (0)

Step 3: Creating a Project Now you have to Create a project.

Click on **Create a project**

Welcome Lavanya!

Watson Studio • Watson Machine Learning

Learn by example
Solve a specific business problem with a comprehensive tutorial in a sample project.
Take a guided tutorial

Start working
Create a project

Add features
Create services with the tools, data, or other capabilities that you need.
Create a service

Quick navigation

Projects

Recent projects

- AssessTermDepositInterest Jun 24, 2020 03:59 PM
- footClassGenk Jun 23, 2020 04:44 PM
- myclass1 Jun 23, 2020 04:13 PM

Notifications

No notifications You will see your most recent notifications here.

Your services

- Watson Studio-qp Watson Studio Today at 01:44 PM
- Machine Learning-6r Machine Learning Jun 26, 2020 03:09 PM
- Visual Recognition-wm Visual Recognition Jun 23, 2020 04:39 PM
- cloud-object-storage-iv Cloud Object Storage Jun 23, 2020 04:12 PM
- Discovery-h0 Discovery May 29, 2020 10:22 AM

New in gallery

<https://dataplatform.cloud.ibm.com/projects/new-project?context=cpdatas>

On the Create a project page, click **Create an empty project**

← Back

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.

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

<https://dataplatform.cloud.ibm.com/projects/new-project?context=cpdatas>

Provide a **Project Name** and **Description**, as shown below:

New project

Define project details

Name

Description

Choose project options

Restrict who can be a collaborator (1)

Project will include 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](#)

You must also create storage for the project. Click **Add**

New project

Define project details

Name

Project name

Description

Project description

Choose project options

Restrict who can be a collaborator [?](#)

Project will include integration with Cloud Object Storage for storing project assets.

Define storage

① Select storage service

Add

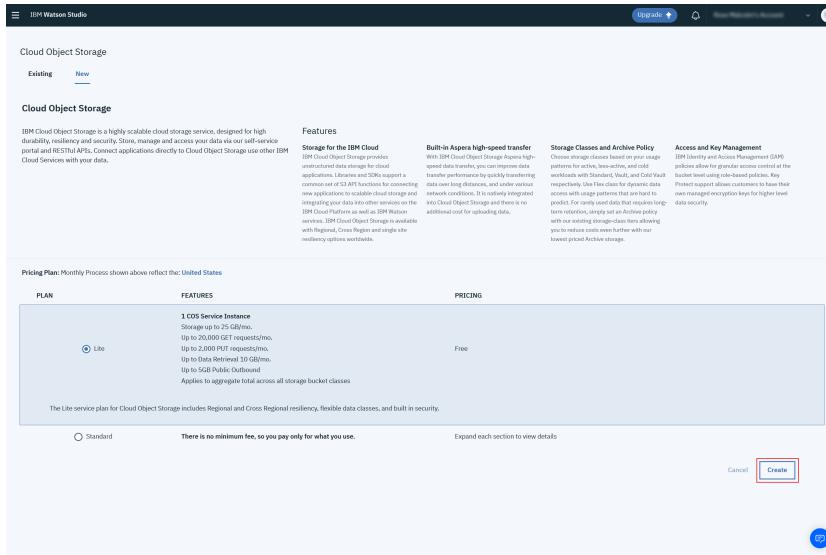
Add an object storage instance and then return to this page and click Refresh.

② Refresh

Cancel

Create

On the Cloud Object Storage page, scroll down and then click **Create**.



The screenshot shows the 'Cloud Object Storage' creation interface. At the top right, there are 'Cancel' and 'Create' buttons. The 'Create' button is highlighted with a red box. Below the buttons, there's a section titled 'Cloud Object Storage' with tabs for 'Existing' and 'New'. The 'New' tab is selected. Underneath, there are several sections: 'Storage for the IBM Cloud', 'Built-in Apache High-speed transfer', 'Storage Classes and Archive Policy', and 'Access and Key Management'. At the bottom, there's a 'Pricing Plan' table with columns for 'PLAN', 'FEATURES', and 'PRICING'. The 'Lite' plan is selected. The 'PRICING' column for the Lite plan shows 'Free'. A note below the table states: 'The Lite service plan for Cloud Object Storage includes Regional and Cross Regional resiliency, flexible data classes, and built in security.' At the very bottom, there's a 'Standard' button, a note about no minimum fee, and a 'Create' button which is also highlighted with a red box.

In the Confirm Creation box, click **Confirm**.



Confirm Creation

Plan

Lite



Resource group

Default

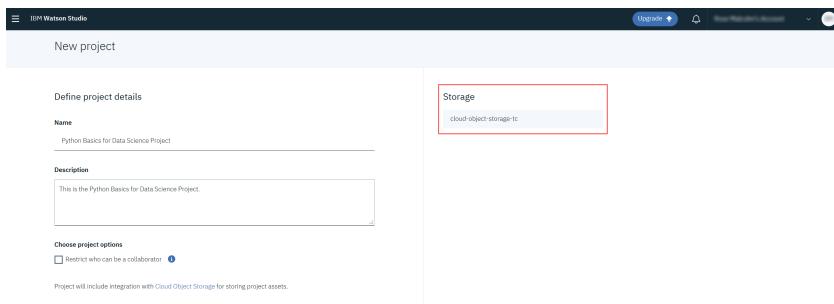


Service name

cloud-object-storage-ai

Cancel **Confirm**

On the New project page, note that the storage has been added, and then click Create.



Create

Step 4: Adding a Notebook to the Project: You need to add a Notebook to your project. Click Add to project.

In the list of asset types, click Notebook:

On the New Notebook page, enter a name for the notebook, and then click **From URL**. Copy this [link](#).

Paste it into the **Notebook URL** box, and then click **Create Notebook**.

You will see this Notebook:



Introduction to Pandas in Python

Estimated time needed: 15 minutes

Objectives

After completing this lab you will be able to:

- Use Pandas to access and view data

Table of Contents

- [About the Dataset](#)
- [Introduction of Pandas](#)
- [Viewing Data and Accessing Data](#)
- [Quiz on DataFrame](#)

Estimated time needed: 15 min

Once you complete your notebook you will have to share it. Select the icon on the top right a marked in red in the image below, a dialogue box should open, select the option all content excluding sensitive code cells. Share it in the Social Network platform, you desire.

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Changelog

Date	Version	Changed by	Change Description
2020-08-25	2.0	Lavanya	Migrated Lab to Markdown and added to course repo in GitLab

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