Start Lab 02:00:00

Using Custom Estimators

2 hours Free Rate Lab

Duration is 1 min

In this lab you will build a custom estimator.

What you learn

In this lab, you will learn how to build a custom estimator.

Setup

For each lab, you get a new Google Cloud project and set of resources for a fixed time at no cost.

1. Make sure you signed into Qwiklabs using an **incognito window**.

finish in that time block.

There is no pause feature. You can restart if needed, but you have to start at the beginning.

3. When ready, click START LAB .
4. Note your lab credentials. You will use them to sign in to the Google Cloud Console.

Open Google Console

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. **Learn more.**

Username

`google2876526_student@qwiklabs.n`

GCP Project ID

`qwiklabs-gcp-0855e773352d3560`

New to labs? View our introductory video!

5. Click **Open Google Console**.
6. Click **Use another account** and copy/paste credentials for **this** lab into the prompts.

If you use other credentials, you'll get errors or **incur charges**.

7. Accept the terms and skip the recovery resource page.

Do not click **End Lab** unless you are finished with the lab or want to restart it. This clears your work and removes the project.

Create Storage Bucket

Duration is 2 min

Create a bucket using the GCP console:

Step 1

In your GCP Console, click on the **Navigation menu** ( ), and select **Storage**.

Step 2

Click on **Create bucket**.

Step 3

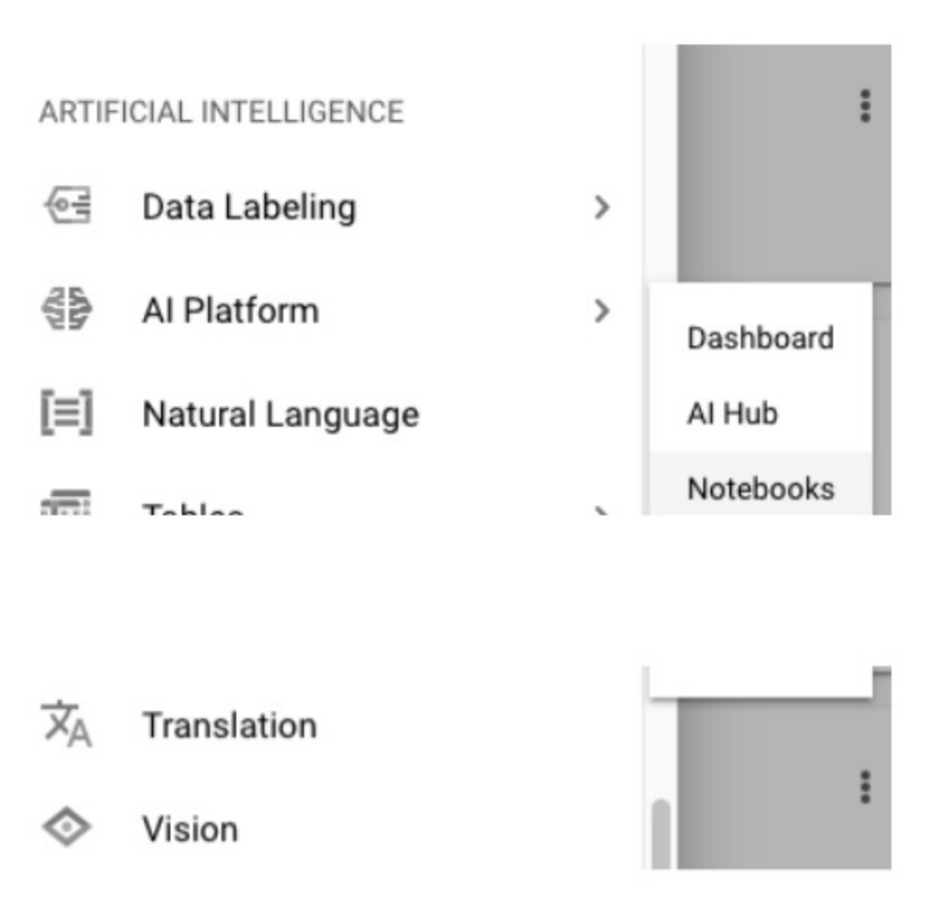
Choose a Regional bucket and set a unique name (use your project ID because it is

Launch AI Platform Notebooks

To launch AI Platform Notebooks:

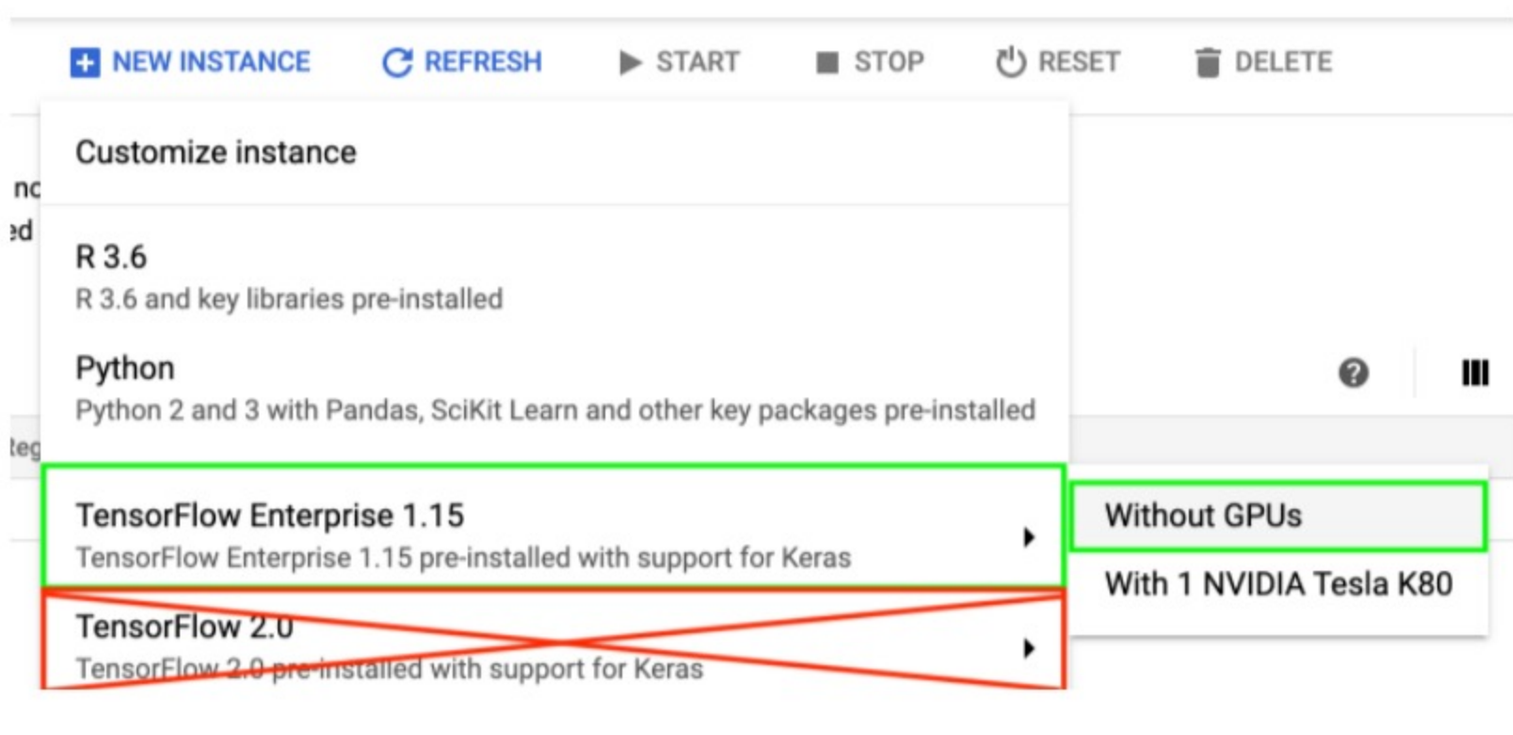
Step 1

Click on the **Navigation Menu**. Navigate to **AI Platform**, then to **Notebooks**.



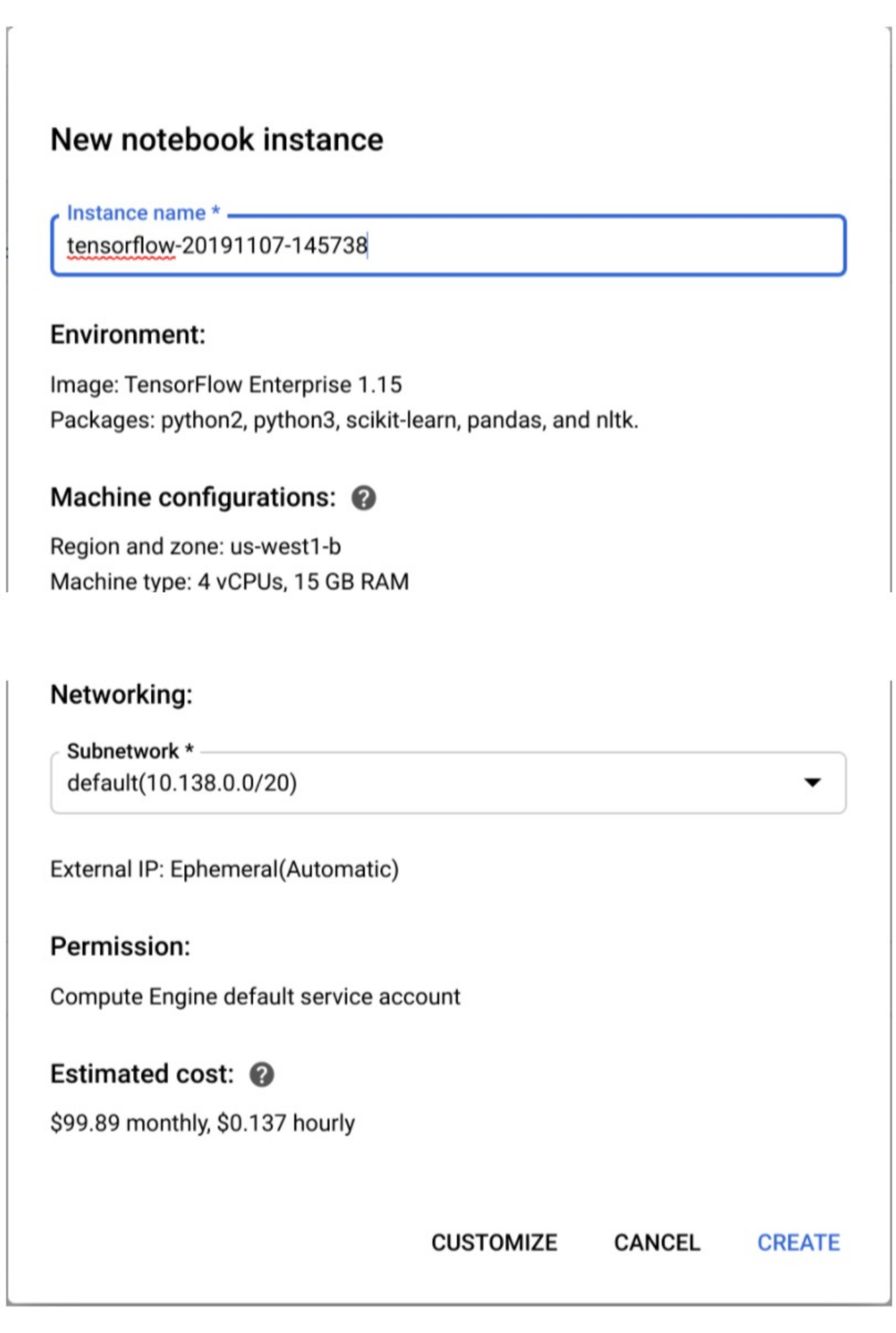
Step 2

On the Notebook instances page, click + NEW INSTANCE . Select a `1.XX` version of TensorFlow (not a 2.0) *without GPUs*. In the following example, you would select **Tensorflow Enterprise 1.15** > **Without GPUs**:



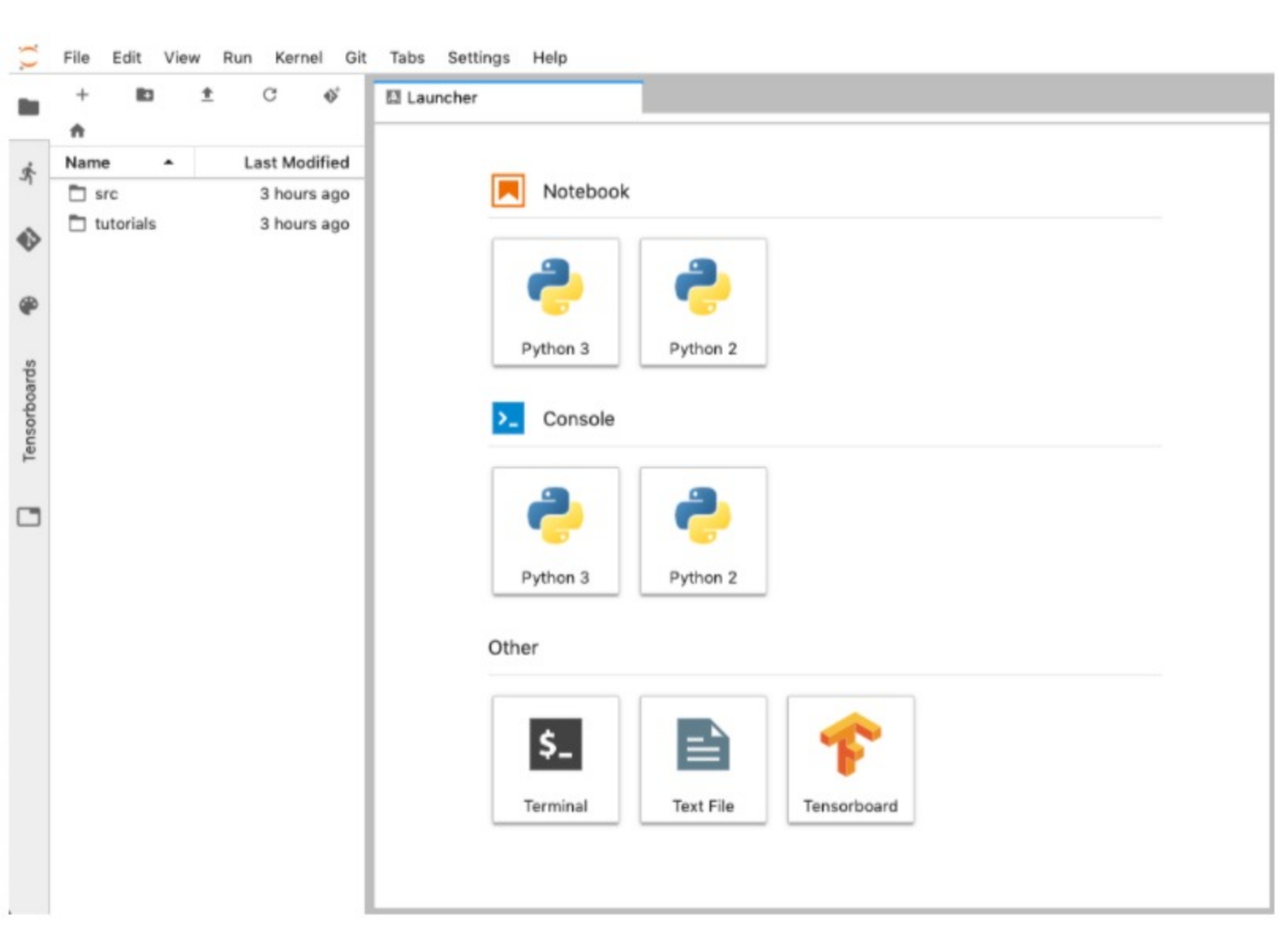
Tensorflow 1.XX versions change semi-frequently, so the version you pick may be different.

In the pop-up, confirm the name of the deep learning VM and click **Create**.



The new VM will take 2-3 minutes to start.

Step 3

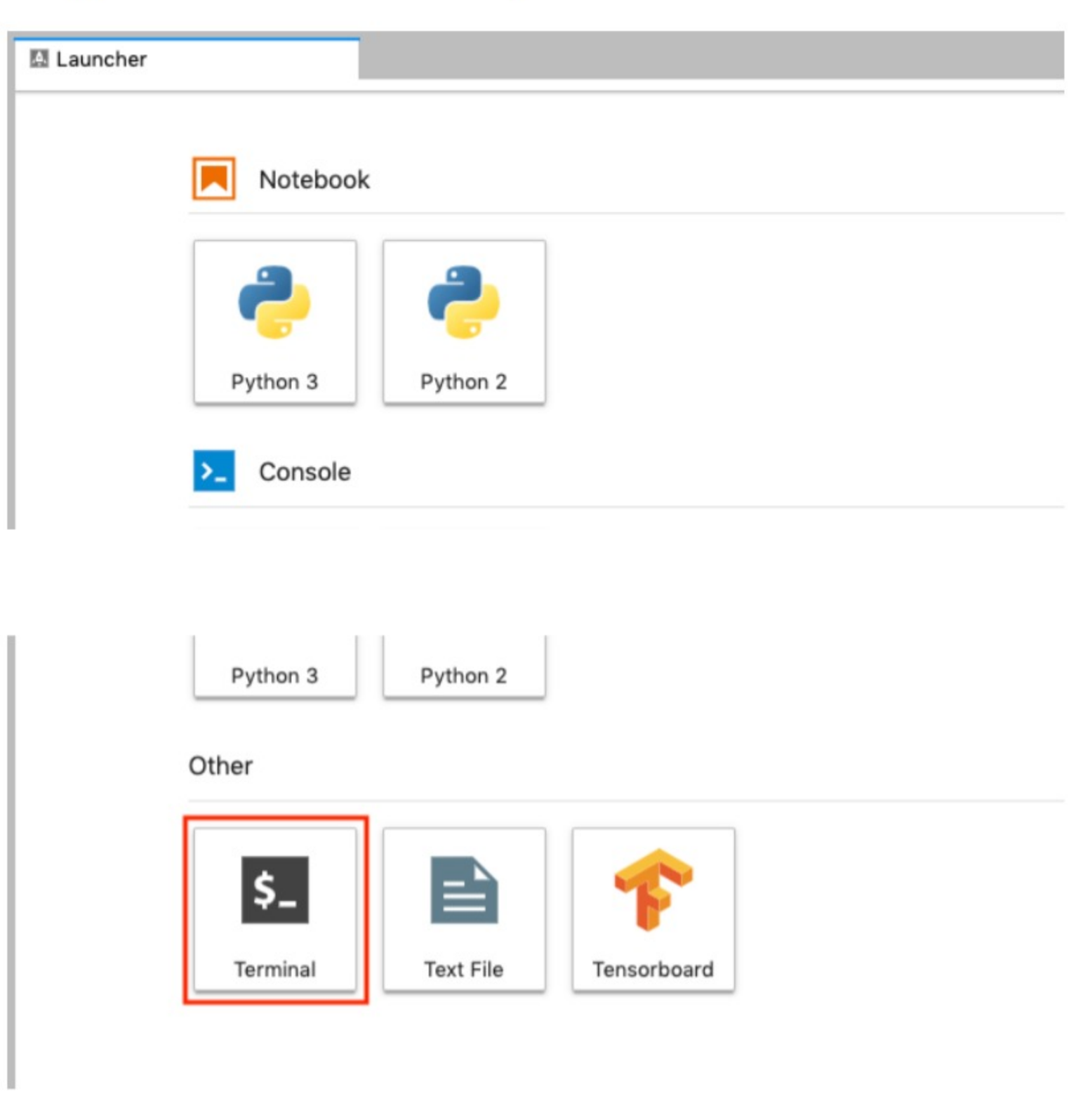


Clone course repo within your AI Platform Notebooks instance

To clone the `training-data-analyst` notebook in your JupyterLab instance:

Step 1

In JupyterLab, click the Terminal icon to open a new terminal.



Step 2

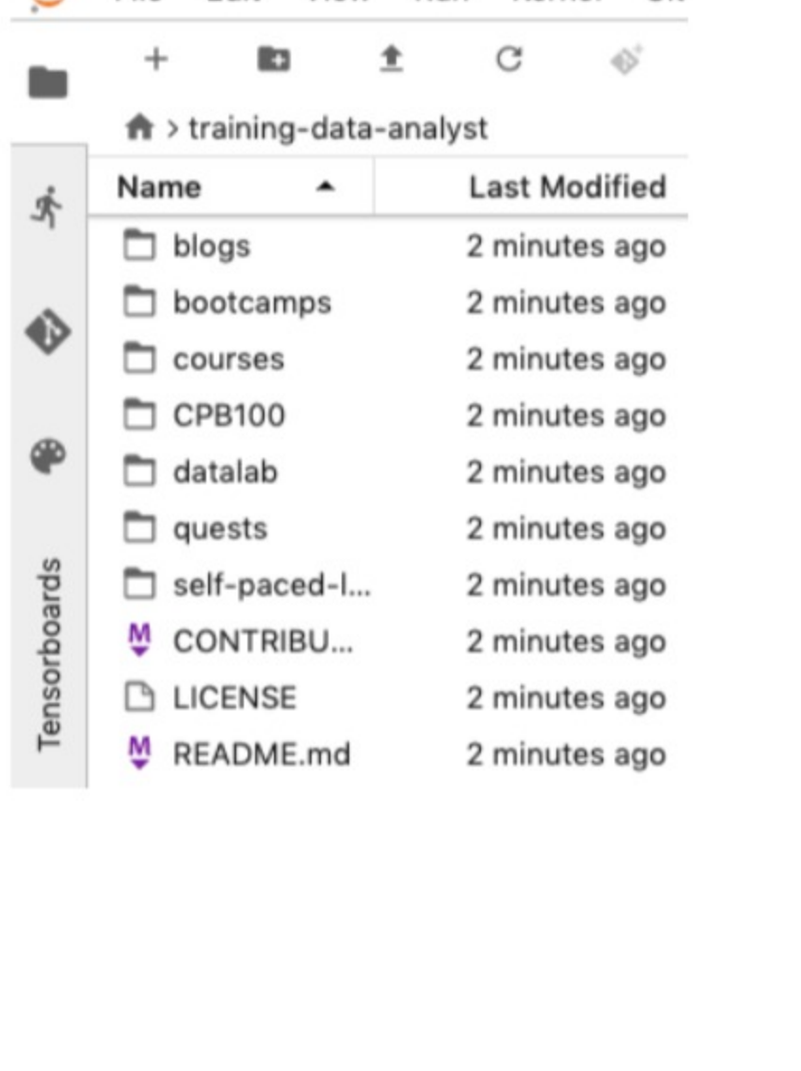
At the command-line prompt, type in the following command and press Enter.

```
git clone https://github.com/GoogleCloudPlatform/training-data-analyst
```

Step 3

Confirm that you have cloned the repository by double clicking on the `training-`

directory.



On the **Navigation menu** (≡), click **APIs & Services**.

Scroll down and confirm that below API is enabled.

- AI Platform Training & Prediction API

If the API is missing, click **ENABLE APIS AND SERVICES** at the top, search for the API by name, and enable it for your project.

Custom Estimator

Duration is 15 min

Step 1

In the notebook interface, navigate to **training-data-analyst > courses >**

Step 2

In the notebook interface, click on **Edit > Clear All Outputs** (click on Edit, then in the drop-down menu, select Clear All Outputs).

End your lab

When you have completed your lab, click **End Lab**. Qwiklabs removes the resources you've used and cleans the account for you.

You will be given an opportunity to rate the lab experience. Select the applicable number of stars, type a comment, and then click **Submit**.

The number of stars indicates the following:

- 1 star = Very dissatisfied
- 2 stars = Dissatisfied
- 3 stars = Neutral
- 4 stars = Satisfied
- 5 stars = Very satisfied

You can close the dialog box if you don't want to provide feedback.

For feedback, suggestions, or corrections, please use the **Support** tab.