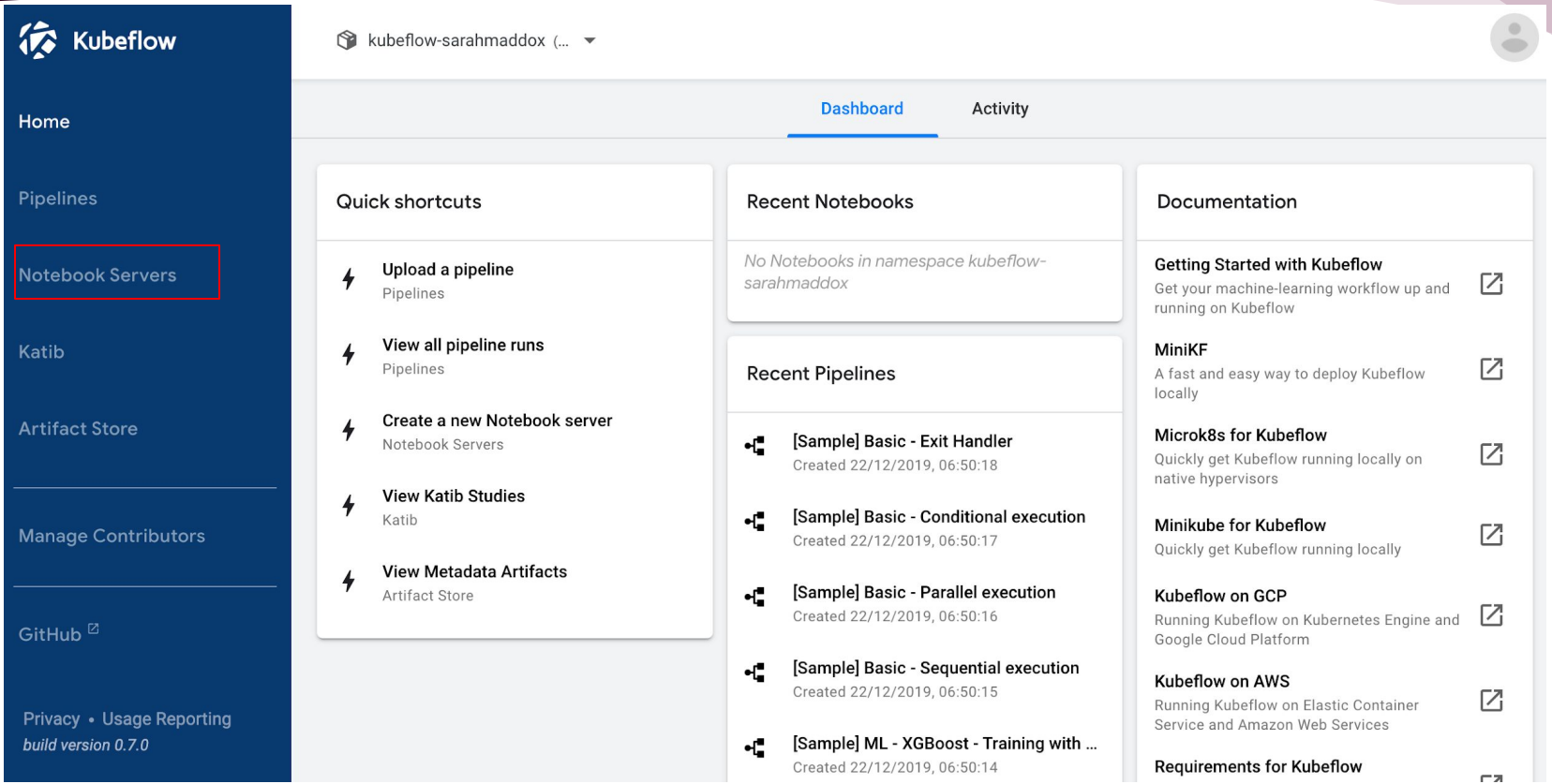
Jupyter Notebook

Jupyter Notebooks

- Appropriate open-source environment for code building, visualizations.
- Integrated into Kubeflow by connecting to the Notebook Server.
- Allows standard/custom notebook images , role-based access control (RBAC), secrets and credentials to manage for teams.
- Kubeflow provides multiple notebook servers per kubeflow deployments, each having a single namespace that corresponds to a team or project name.

Jupyter Notebooks



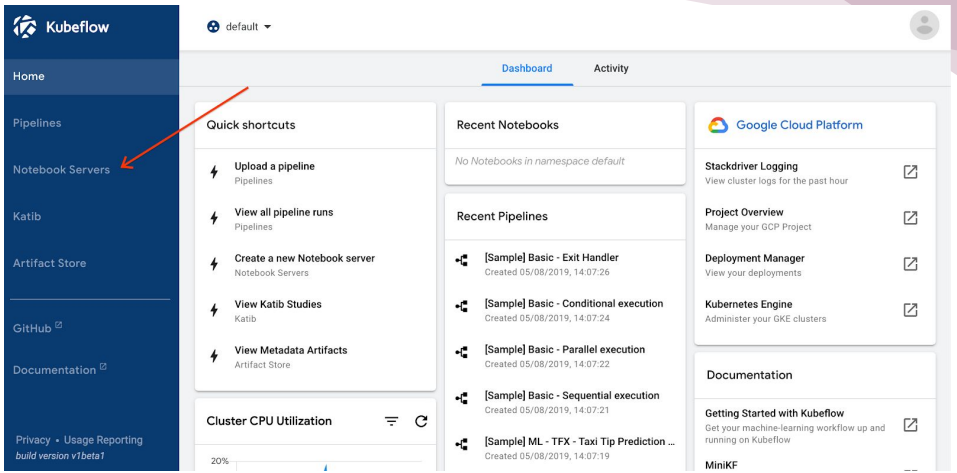
Set up your Notebook

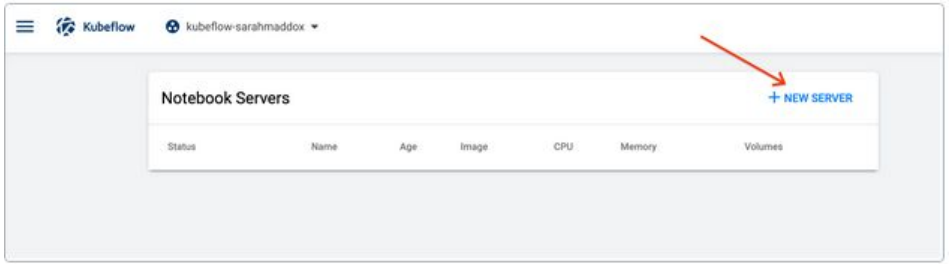
Start by setting up a jupyter notebook through the Notebook Servers tab following the steps below:

1. Click **Notebook Servers** in the left-hand panel of the Kubeflow UI.

2. Click the **namespace** dropdown and choose the a that corresponds to your Kubeflow profile.

3. Click **new server** at the top right corner of the Notebook Servers page to create a notebook server.





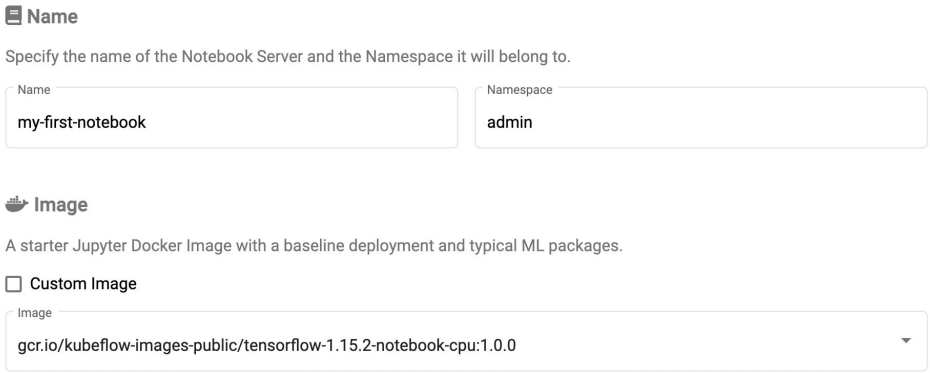
Set up your Notebook

4. Enter the details of your new server on the next page:

a. Give a **name** of your choice to the notebook server, which must be in ***lowercase***

b. The **namespace** is automatically updated by Kubeflow.

c. Select a Docker image. Use the `gcr.io/kubeflow-images-public/tensorflow-1.15.2-notebook-cpu:1.0.0` image for our example.



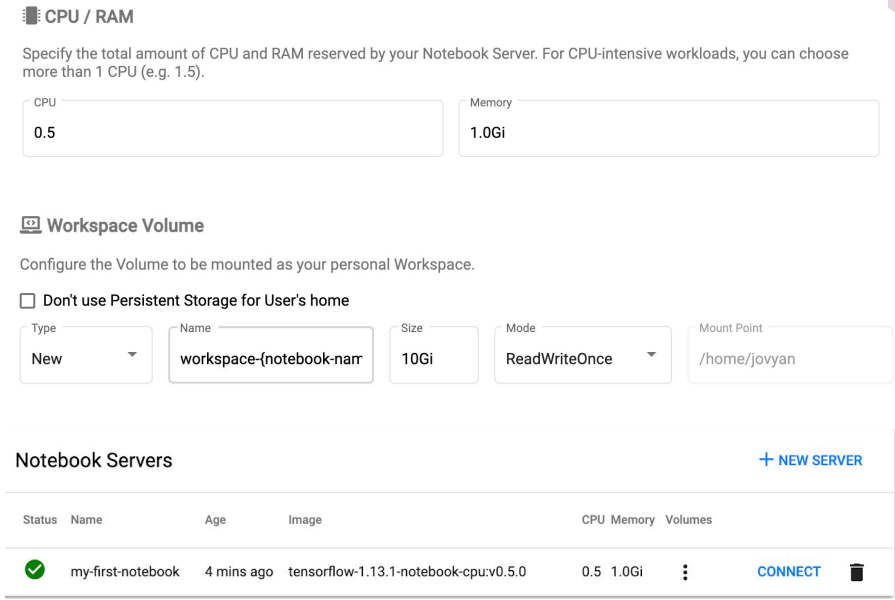
Set up your Notebook

6. Specify the total amount of **CPU** that your notebook server should reserve. **For this labs use 0.5**

7. Specify the total amount of memory your notebook server should reserve.**For this labs use 1.0GI**

8. Specify a **workspace volume** to hold your personal workspace for this notebook server. The name is automatically updated by kubeflow, leave the size as 10Gi and the mode at ReadWriteOnce.

9. Click **LAUNCH** and you should see a new Notebook server entry like below.



Clone the Repository

10. Connect to your notebook and open up the terminal.

11. In the terminal run this code to clone the repository we would be working with.

```
git clone https://github.com/MavenCode/KubeflowTraining.git
```