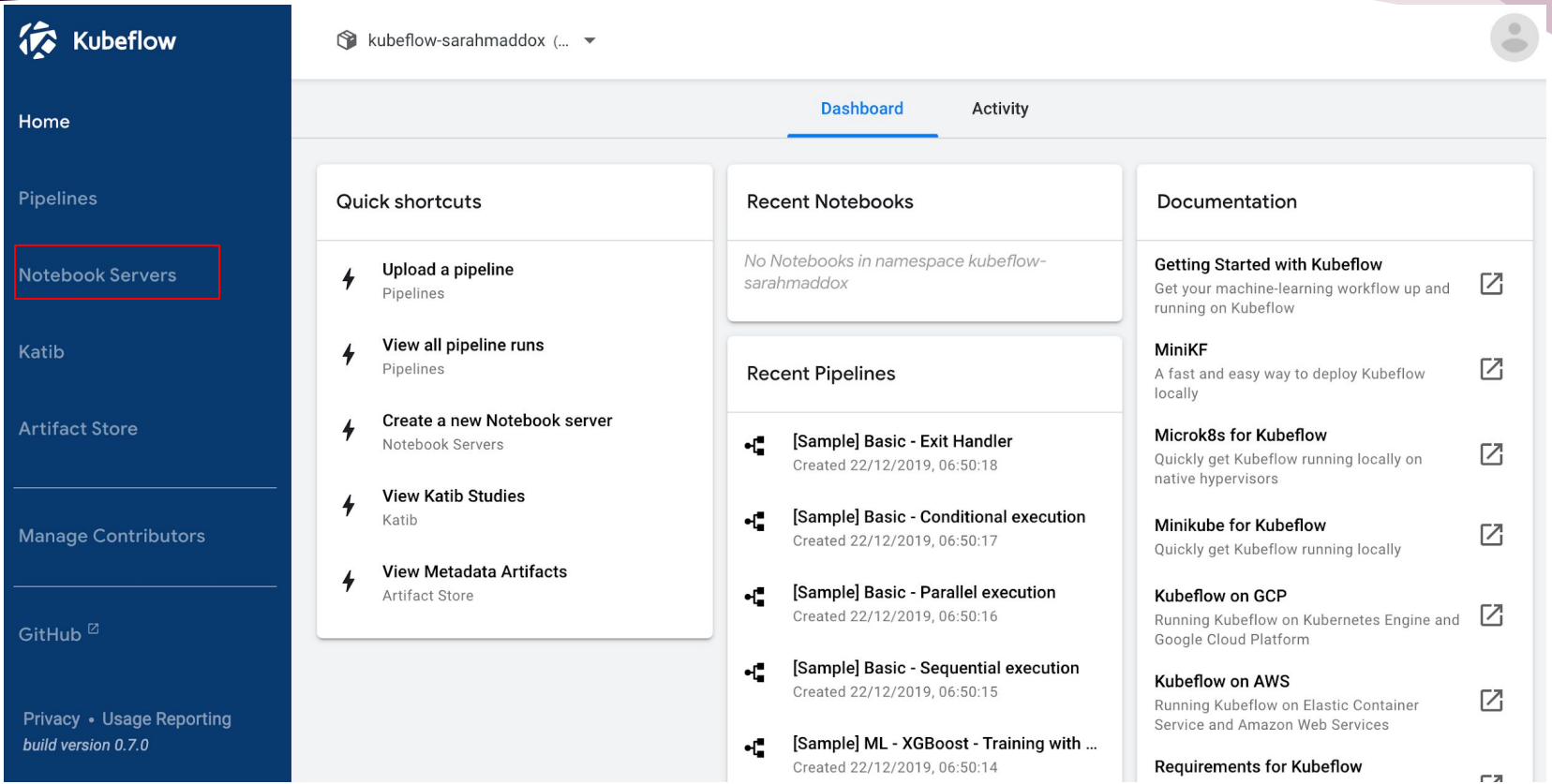
Jupyter Notebook on Microk8s Kubeflow

Jupyter Notebooks

- Appropriate open-source environment for code building, visualizations.
- Integrated as a core Kubeflow Component managed by the Notebook Server Controller.
- 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



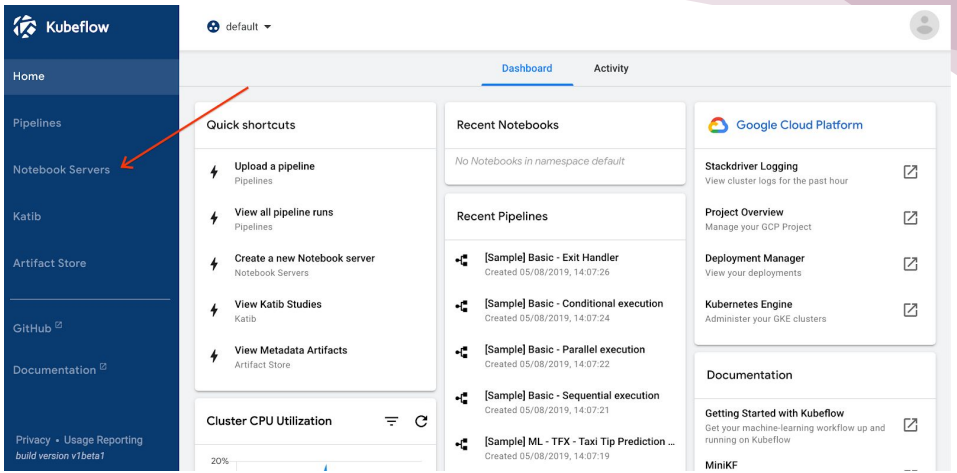
Set up your Notebook

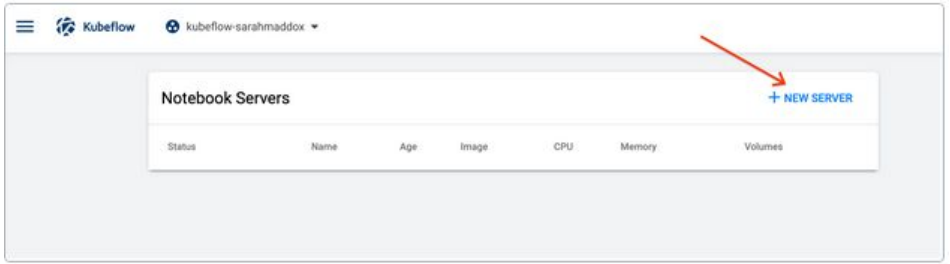
Start by setting up a jupyter notebook through the Notebook Servers tab following the steps below:

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.





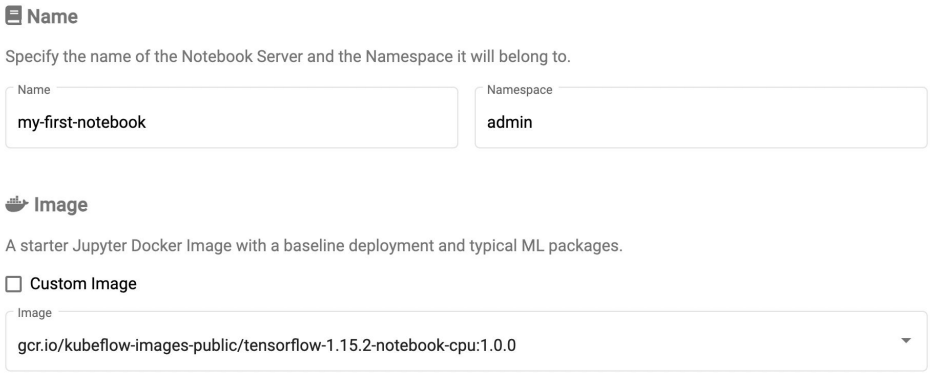
Set up your Notebook

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.



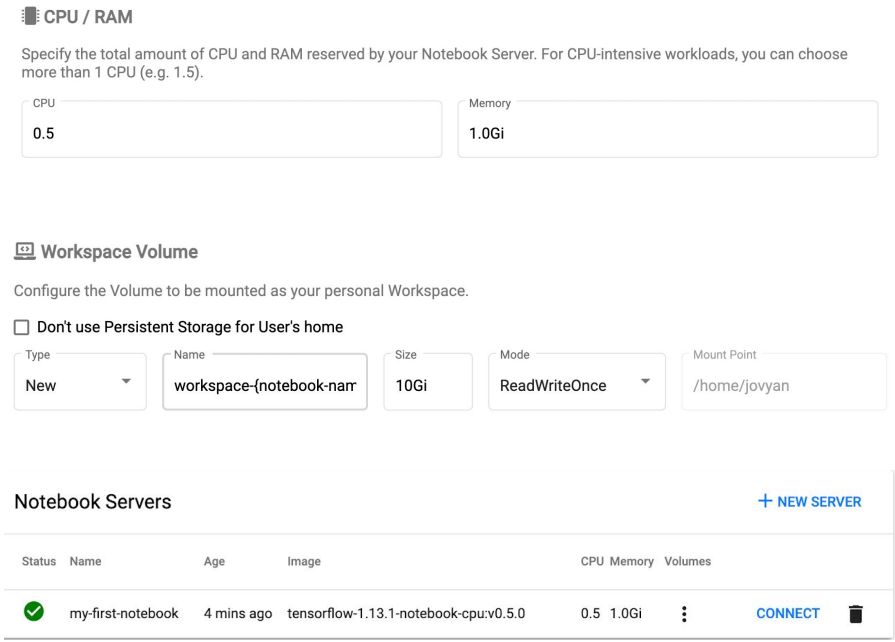
Set up your Notebook

6. Specify the total amount of **CPU** that your notebook server should reserve. **For this lab, 0.5 should be appropriate**

7. Specify the total amount of memory your notebook server should reserve.**For this lab, 1.0Gi should be appropriate**

8. Specify a **workspace volume** to hold your personal workspace for this notebook server. **For this lab, use the default name, size and mode given by kubeflow.**

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



Clone the Repository

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

11. In the terminal run this code to clone the repository.

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