

# Creating JupyterLab in Kubernetes workspace

JupyterLab is a famous tool for AI researchers. We will discuss how to prepare it on the Oasis Portal. First, we need a disk to persist our codes.

1. Go to Kubernetes tab on left panel, select "Disks".
2. Select "Create new disk" on right top corner.

## New Disk ✕

Project	Cluster
<div>Project create by Pinky <span>▼</span></div>	<div>OBON</div>
Storage class	Size (GB) <span>remaining: 40 GB</span>
<div>*default <span>▼</span></div>	<div>10</div>
Name	
<div>jupyterlab</div>	
<div>Create</div>	

Then, create a workspace to run JupyterLab.

New Workspace

☐ Code
 X

Name

Project

Cluster

jupyterlab

testing

OBON

Number of GPU per pod

Maximum: 8

1

GPU model: NVIDIA-H100-80GB-HBM3

Total memory per pod: 0.08GB

Image

Pick from registry

quay.io/jupyter/pytorch-notebook:cuda12-python-3.11

☐ Input registry credentials

☒ Override command

start-notebook.py --IdentityProvider.token='abcd'

Timeout (seconds)

leave blank if not apply

Environment variables

+envvar

Name	Value	X
NOTEBOOK_ARGS	--notebook-dir='/disk1'	

**Disk:** select the disk we created for this workspace.

Services

+service

Mode

Port

http

8888

Label

Type

JupyterLab

web

Path

Icon

/?token=abcd

https://download.appcara.com/icons/jupyter.svg

+ Ingress Annotation

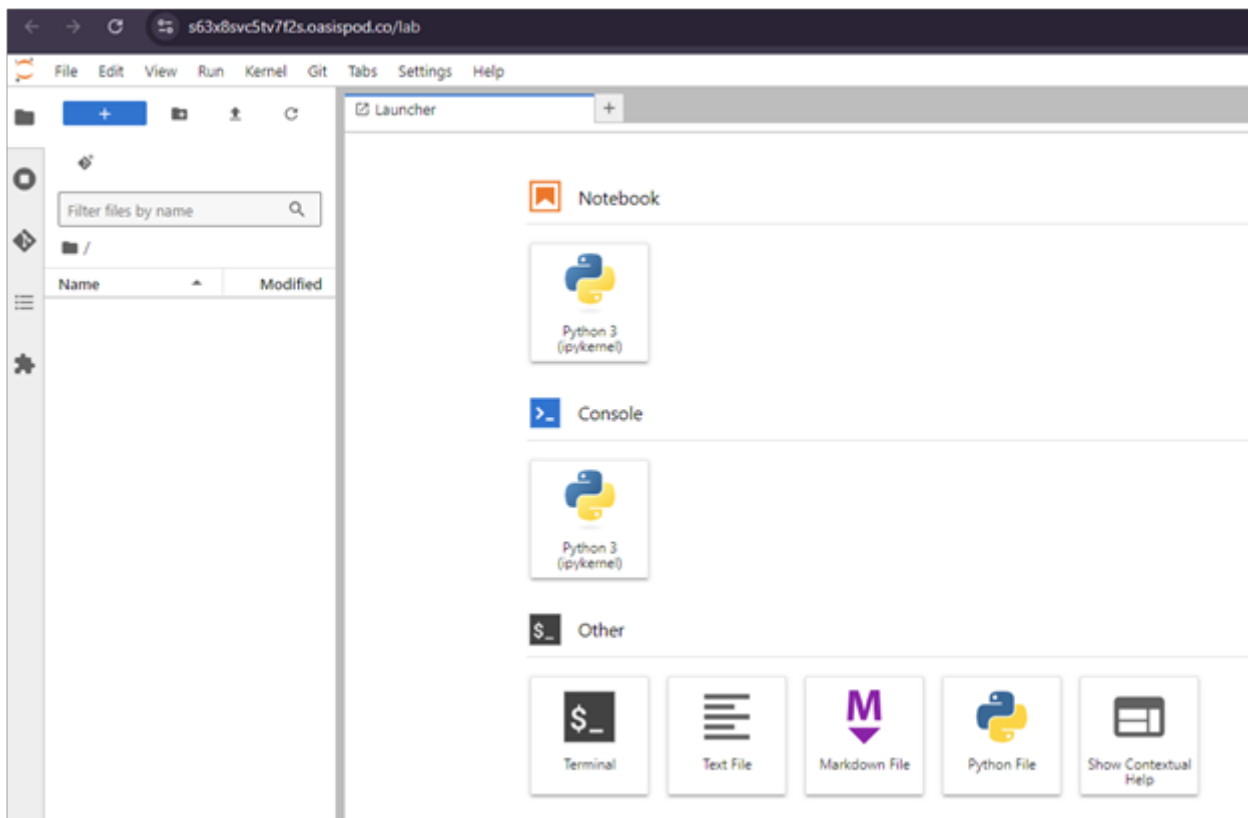
Disks

+disk

Disk	Mount path	X
(select a disk)	/disk1	

Create





Wait until the workspace is running, then click the JupyterLab link to launch the UI.



To access disk console, click the **workspace**, e.g. **jupyterlab**.

### Workspaces

Interactive tasks that run on one node at a time.  
Only launchable when your account still have allotted resources.

Project	Name	Status
Project create by Pinky	 jupyterlab 1 GPU at OBON	 JupyterLab
Project create by Pinky	test 1 GPU at OBON	 

And then select **Console**.

## Workspace Console



► Events

► Logs

► Performance

► Console

Workspace rw2rhpe

```
(base) jovyan@rw2rhpe:~$
```

Revision #2

Created 15 August 2024 03:23:52 by Pinky Sung

Updated 15 August 2024 03:35:15 by Pinky Sung