# Prepare your Saturn Cloud space

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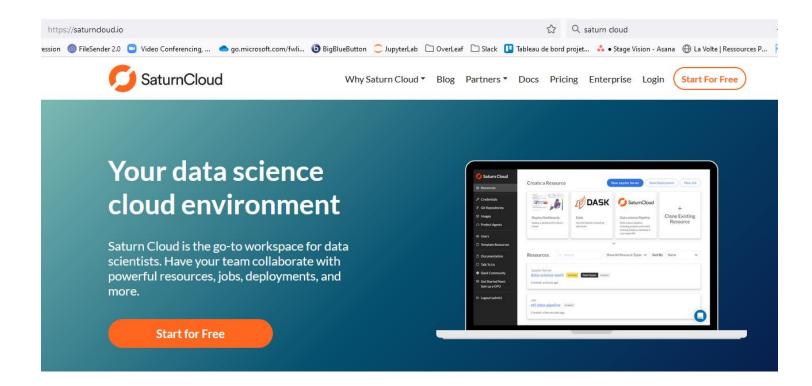


### Steps required

- 1. Create an account on a cloud plateform (Saturn Cloud)
- 2. Create a jupyter server and parametrize it on this cloud
- 3. Start the jupyter server
- 4. Launch the Jupyter lab environment

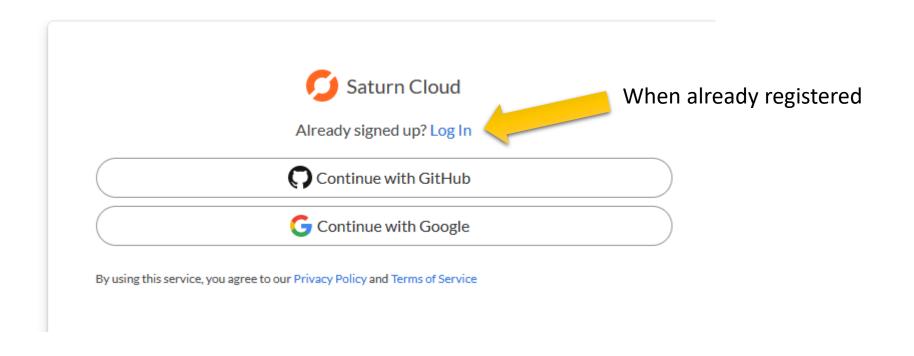
### 1- Create an account

- It's free, « just » need an email adress
- Connect on <a href="https://saturncloud.io">https://saturncloud.io</a> and clic on « Start for Free »



### 1- Create an account

- You can use one of your GitHub or Google account
- Optionnaly, you can create a Saturn Cloud account



### 2- Create your jupyter server

 Hands-on are Jupyter notebooks, so create first a server on Saturn Cloud

#### Create a Resource





#### **RAPIDS**

Use GPUs for data science and machine learning with this platform by NVIDIA



#### Deploy Dashboards

Deploy a dashboard to Saturn Cloud. Read more about deployments at: https://scld.io /docs/deployments.



#### Snowflake

Connect to a Snowflake database from either a single machine or distributed cluster



#### Prefect

New Jupyter Server

Scheduled jobs with Prefect and Prefect Cloud



**New Deployment** 

~

New Job

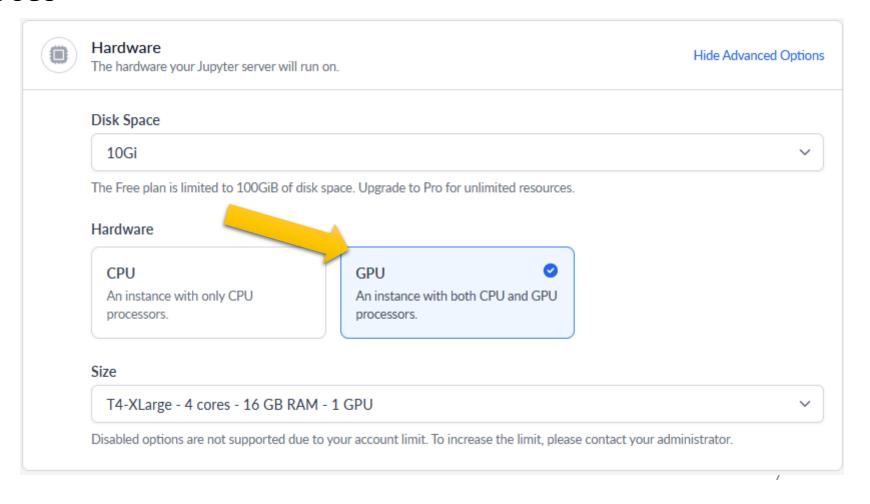
# 2- Server Parameters 1/4

#### Give a name



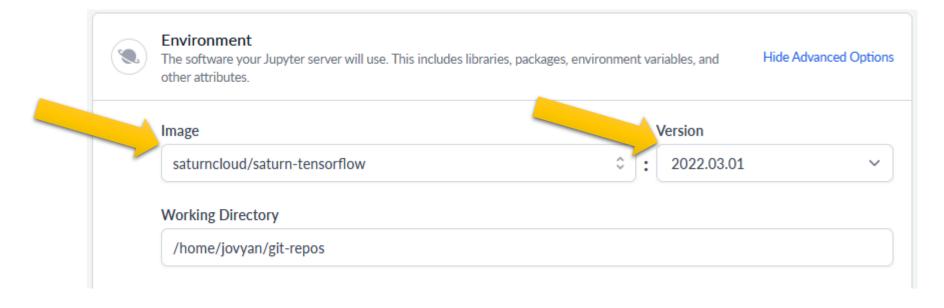
# 2- Server Parameters 2/4

Select GPU ressources



# 2- Server Parameters 3/4

- Select the desired image: saturncloud/saturn-tensorflow
- For version, use the 2022.03.01 or, if not available, the newest

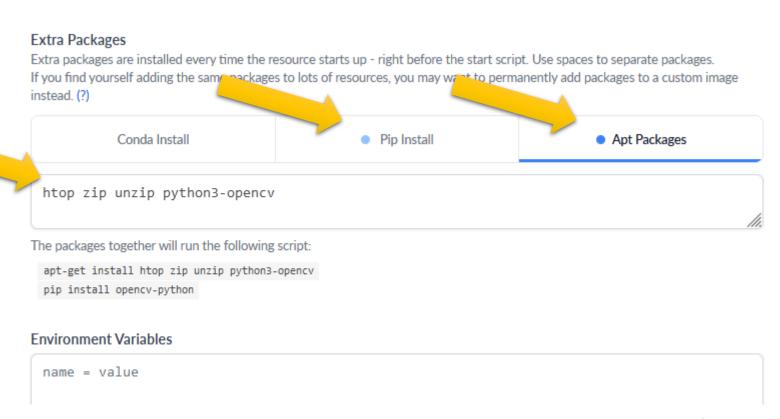


## 2- Server Parameters 4/4

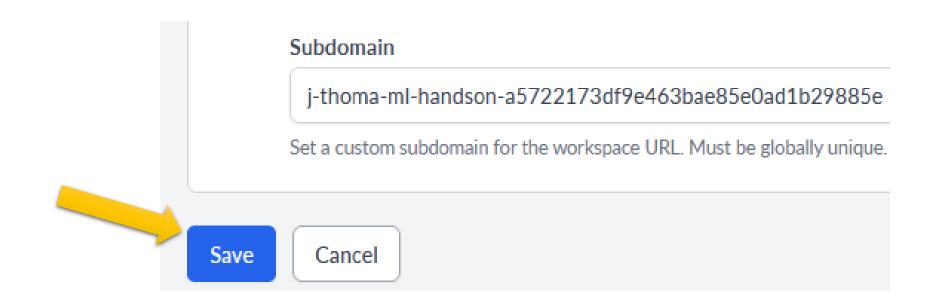


- → Apt Packages add the following htop zip unzip python3-opencv
- → Pip Install, add the following opency-python

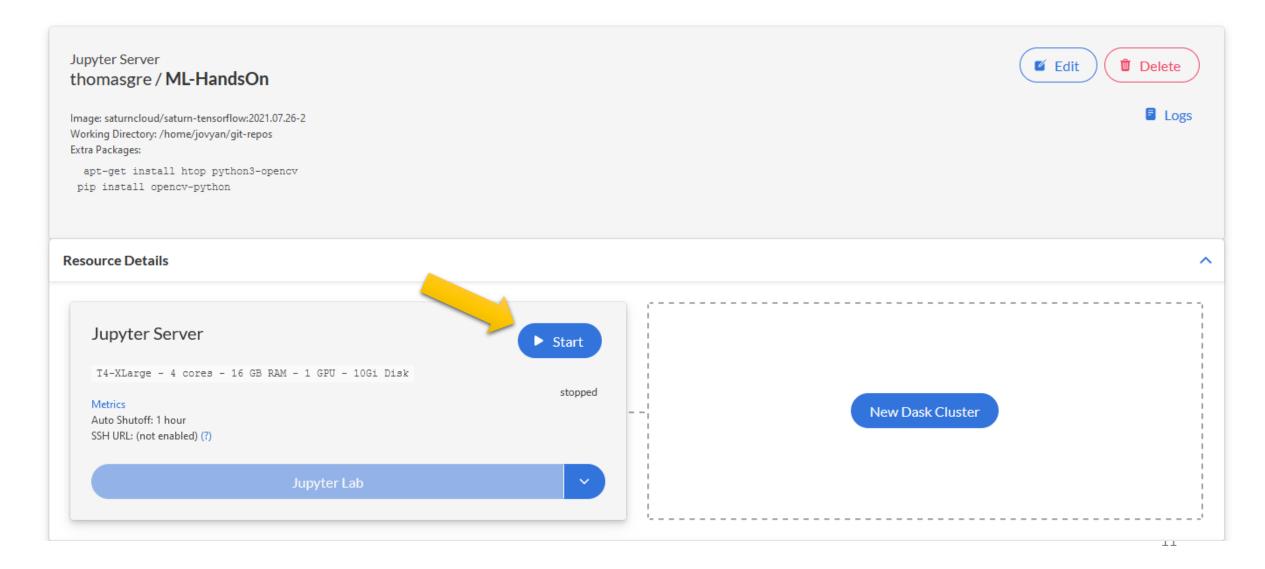
Both must be done



### 2- Server Parameters : save



# 3- Start the jupyter server (few minutes)

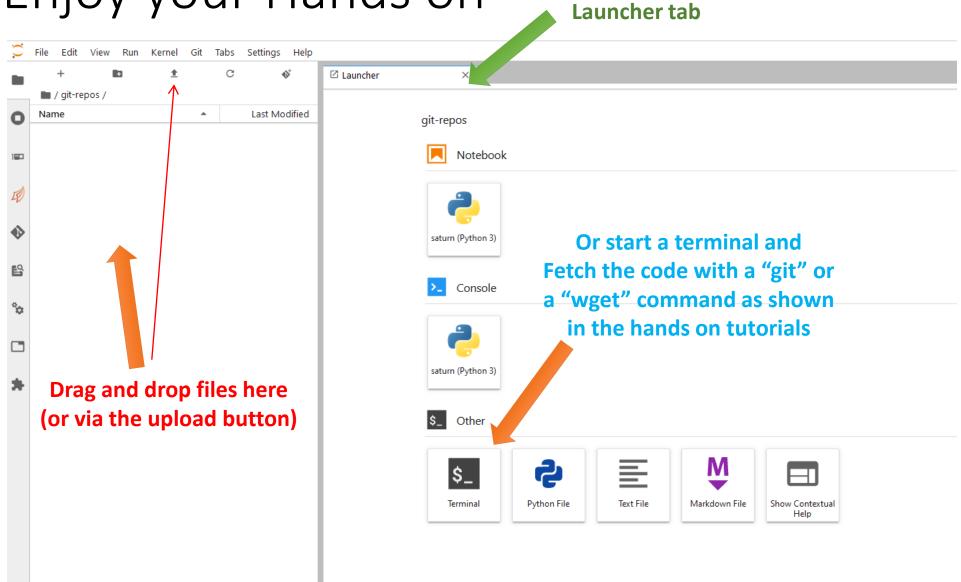


# 4- Launch the Jupyter lab environnement

• First, wait until the server is started ©

Jupyte	er Server	■ Stop
T4-XLar	ge - 4 cores - 16 GB RAM - 1 GPU - 10Gi Disk	
Metrics Auto Shuto SSH URL: (i	off: 1 hour not enabled) (?)	running
	Jupyter Lab	V

5- Enjoy your Hands on



### Hands-on 1 and 2, download files:

#### Classification:

https://gitlab.in2p3.fr/thomas.grenier/tp1ss\_classification/-/raw/master/TP\_Classification.zip

#### Segmentation:

https://gitlab.in2p3.fr/thomas.grenier/tp4ss\_segmentation/-/raw/master/TP\_Segmentation\_v2.zip

#### Also available on the following website:

https://info.usherbrooke.ca/pmjodoin/dlmi2022/handson/