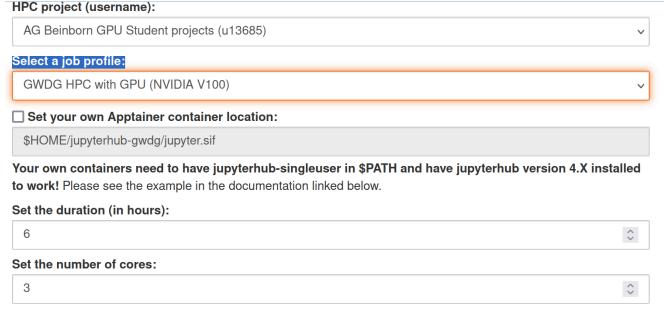# How To Cluster

How To Cluster

Go here:
https://jupyter.hpc.gwdg.de/hub/home

Login -> Then Start my server

These config worked for me:
But especcially with the "Select a job" I was just guessing

HPC project (username):

AG Beinborn GPU Student projects (u13685) ⌄

Select a job profile:

GWDG HPC with GPU (NVIDIA V100) ⌄

☐ **Set your own Apptainer container location:**

$HOME/jupyterhub-gwdg/jupyter.sif

Your own containers need to have jupyterhub-singleuser in $PATH and have jupyterhub version 4.X installed to work! Please see the example in the documentation linked below.

Set the duration (in hours):

6 ⌃⌄

Set the number of cores:

3 ⌃⌄

Set the amount of memory (in GB):

6 ⌃⌄

Jupyter Notebook's Home directory:

$HOME/jupyterhub-gwdg

Documentation
Jupyter-HPC resources are limited and shared between all users. Dedicated resources and profiles for courses are available upon request by lecturers.

Start

Then in the Jupyter enviroment you have to apparently add a `--user` to all the pip commands

so instead of

```
!pip install 'torch>=2.0.1' 'jupyterlab>=4.0' 'tiktoken>=0.5.1' 'numpy>=1.25,<2.0'
```

I used

```
!pip install 'torch>=2.0.1' 'jupyterlab>=4.0' 'tiktoken>=0.5.1'
'numpy>=1.25,<2.0' --user
```

After you finished you have to stop the server again so the resources are free for other students you can also do it here: https://jupyter.hpc.gwdg.de/hub/home

```
!pip install 'torch>=2.0.1' 'jupyterlab>=4.0' 'tiktoken>=0.5.1'
'numpy>=1.25,<2.0' --user
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After you finished you have to stop the server again so the resources are free for other students you can also do it here: https://jupyter.hpc.gwdg.de/hub/home