

# WORKING WITH THE HPC CLUSTER

hard facts	
compute CPUs:	1.536
compute RAM:	15.360 GB
GPUs:	32 x A100 (80 GB) 14 x A100 (40 GB)
storage:	672 TB (HDD) 207 TB (SSD)



https://docs.hpc.hs-osnabrueck.de
https://web.hpc.hs-osnabrueck.de



access from within the university's network using a modern web browser

- 1. open SSH shell
- 2. copy virtual environment
- 3. start new JupyterLab instance
- 4. clone provided git repository

1. open SSH shell

2. copy virtual environment

3. start new JupyterLab instance



Welcome to the HiPer4All Dashboard. From here you can access the HPC Cluster resources through your Web Browser!



## Pinned Apps A featured subset of all available apps

# Fair Use Policy

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#### Host: hpc.hs-osnabrueck.de

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Last login: Tue May 21 14:30:47 2024 from 172.25.198.21 Linux 4.18.0-513.24.1.e18\_9.x86\_64 - Rocky Linux release 8.9 (Green Obsidian) [nimeseth@m10-09 ~]\$ Themes: Default

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#### Home / My Interactive Sessions / Jupyter Lab

Interactive Apps
☐ HiPer4All Desktop
🗧 Jupyter Lab

# Jupyter Lab

This app will launch a Jupyter Lab server on a compute node.

Account

l\_aul\_meseth\_bda\_ss24

Select the Account on which to bill the Ressources for this Job on.

#### Python Virtual Environment



/cluster/user/nimeseth/env

You need to select a virtual environment to run your notebook server. This allows you to install custom packages for your programs. You can also create multiple environments for different projects or tasks. See the documentation on how to create a new virtual environment and install Jupyter.

#### Extra Modules



Define any custom modules you want to use inside your notebook server, which are available via Imod and might have been installed via EasyBuild. The input has to be a space-separated list of modules installed in /opt/ohpc/pub/easybuild/modules/all/

#### Max Time (in h)

Load required modules, separated by a space

×

Session was successfully created.

Home / My Interactive Sessions

Interactive Apps	Jupyter Lab (3787) Queued
☐ HiPer4All Desktop	Created at: 2024-05-21 16:32:39 CEST
🗃 Jupyter Lab	Time Requested: 8 hours
	Session ID: 7b828d4d-bd1e-4226-a82a-6d4a5dcc9520
	Account: l_aul_meseth_bda_ss24
	Python Virtual Environment: /cluster/user/nimeseth/env
	Max Time (in h): 8
	GPU Type: ampere80
	Please be patient as your job currently sits in queue. The wait time depends on the number of cores as well as time requested.



Interactive Apps	Jupyter Lab (3787)	1 node   4 cores Runni
◘ HiPer4All Desktop	Host: >_m09-05	🕄 Delet
🛢 Jupyter Lab	Created at: 2024-05-21 16:32:39 CEST	
	Time Remaining: 7 hours and 58 minutes	
	Session ID: 7b828d4d-bd1e-4226-a82a-6d4a5dcc9520	
	Account: I_aul_meseth_bda_ss24	
	Python Virtual Environment: /cluster/user/nimeseth/env	
	Max Time (in h): 8	
	GPU Type: ampere80	

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# useful commands

ls -a	List all files and folders, including hidden ones
rm -r <folder></folder>	Remove all files and subfolders in <folder></folder>
cd <folder></folder>	Change directory to folder
cd	Move one folder up
pwd	Show the current folder
cp -r <from> <to></to></from>	Copy all content from one folder to another