

JEDI ONBOARDING SC24 TUTORIAL SESSION 1B

17 November 2024 | Andreas Herten | Jülich Supercomputing Centre, Forschungszentrum Jülich



Everything listed on GitHub repo of tutorial:

https://go.fzj.de/mg-gh1



¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

 Everything listed on GitHub repo of tutorial:

```
https://go.fzj.de/mg-gh<sup>1</sup>
```

- Create JSC account at JuDoor
- 2 Join training2446 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 💶 Wait 15 minutes 👯
- 5 Access system via Jupyter 3.6 JUWELS, training2446, LoginNodeBooster
- ightarrow jupyter-jsc.fz-juelich.de
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2446/env.sh
- Gather course material
 \$ jsc-material-sync



¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

 Everything listed on GitHub repo of tutorial:

- Please start process now
- We'll repeat the following steps in the first hands-on session

- 1 Create JSC account at JuDoor
- Join training2446 project
- \rightarrow https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- Wait 15 minutes <</p>
- 5 Access system via Jupyter 3.6 JUWELS, training2446, LoginNodeBooster
- ightarrow jupyter-jsc.fz-juelich.de
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2446/env.sh
- Gather course material
 \$ jsc-material-sync



¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

 Everything listed on GitHub repo of tutorial:

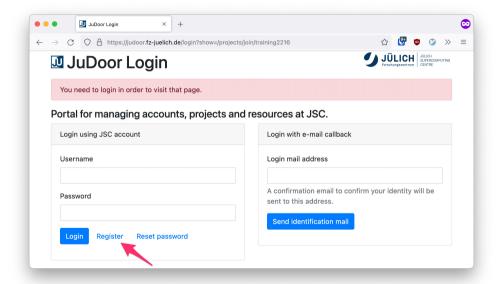
Swapcard

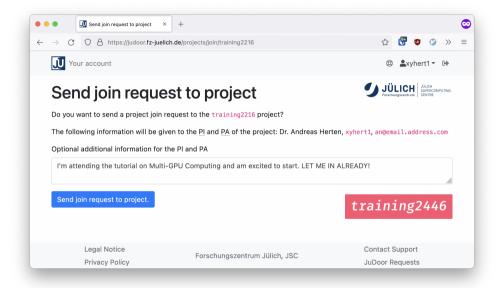
- Please start process now
- We'll repeat the following steps in the first hands-on session

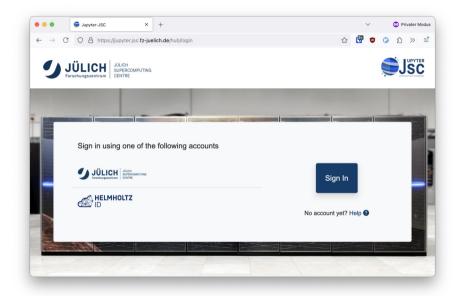
- Create JSC account at JuDoor
- Join training2446 project
- \rightarrow https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 4 Wait 15 minutes 👯
- 5 Access system via Jupyter 3.6 JUWELS, training2446, LoginNodeBooster
- ightarrow jupyter-jsc.fz-juelich.de
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2446/env.sh
- Gather course material
 \$ jsc-material-sync

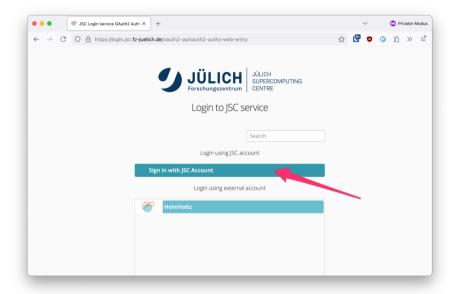


¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

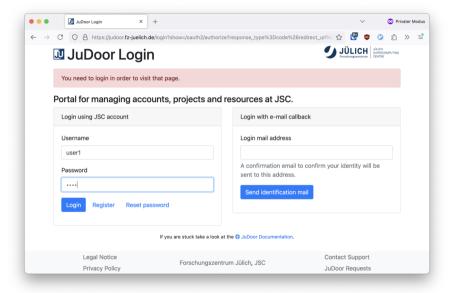


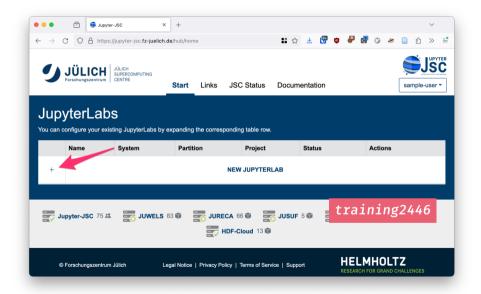


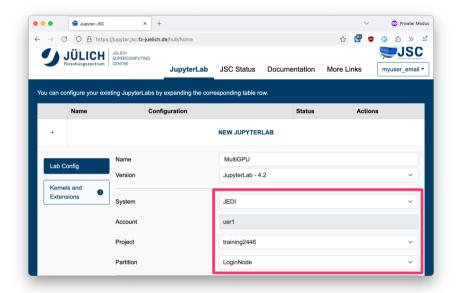


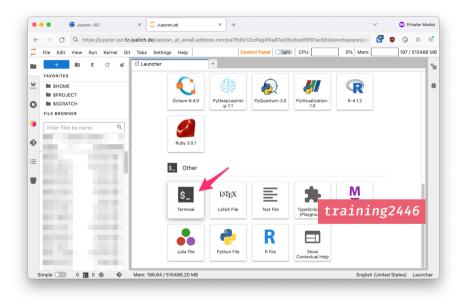


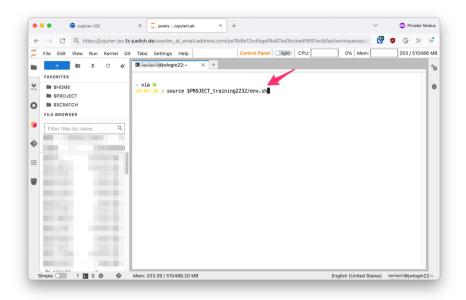
Slide 214



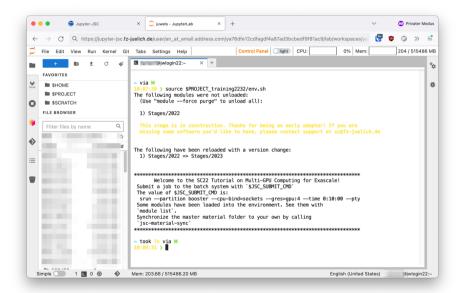








Slide 214



 Everything listed on GitHub repo of tutorial:

```
https://go.fzj.de/mg-gh<sup>1</sup>
```

- 1 Create JSC account at JuDoor
- Join training2446 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 💶 Wait 15 minutes 👯
- 5 Access system via Jupyter 3.6 JUWELS, training2446, LoginNodeBooster
- ightarrow jupyter-jsc.fz-juelich.de
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2446/env.sh
- Gather course material
 \$ jsc-material-sync



¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

Profiling Tools

- Extra Credits: Prepare for Profiling Session
- Download Nsight Systems now; install!
- → https://developer.nvidia.com/nsight-systems/get-started
 - Also: Via package manager developer.download.nvidia.com/devtools/repos





SSH Login

- Login with SSH available
- We recommend Jupyter JSC: easier, more features
- Add SSH key via JuDoor to JUWELS Booster
- Important: from clause (limits connections to be from defined sources)
- Example

```
from="80.146.183.0/24" ssh-ed25519 AddddACadsfzaC1lZDI1NTE5AAAAsa
# coarser: from="80.144.0.0/13"
```

- → SSH:ssh user1@juwels-booster.fz-juelich.de
 - Help at apps.fz-juelich.de/jsc/hps/juwels/access.html



