

JUPITER ONBOARDING ISC25 TUTORIAL SESSION 1B

13 June 2025 | 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>
```

- 1 Create JSC account at JuDoor
- 2 Join training2526 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 💶 Wait 15 minutes 👯
- 5 Access system via Jupyter 4.3 JUPITER, training2526, LoginNode
- \rightarrow https://go.fzj.de/mg-jup
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2526/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

- Create JSC account at JuDoor
- Join training2526 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 4 Wait 15 minutes 👯
- 5 Access system via Jupyter 4.3 JUPITER, training2526, LoginNode
- → https://go.fzj.de/mg-jup
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2526/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:

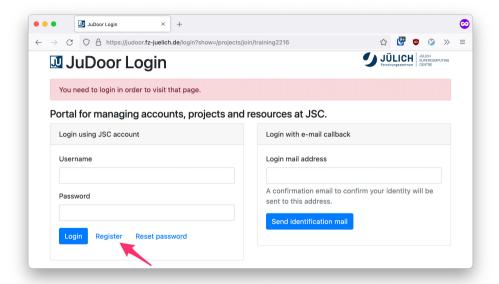
Swapcard

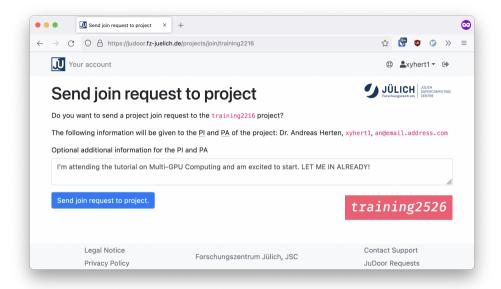
- Please start process now
- We'll repeat the following steps in the first hands-on session

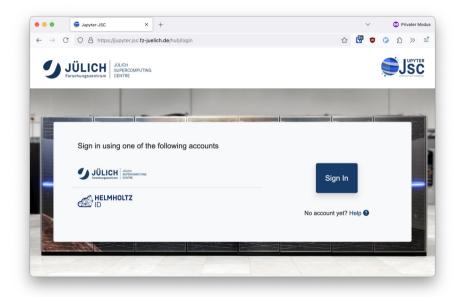
- Create JSC account at JuDoor
- Join training2526 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- Wait 15 minutes <</p>
- 5 Access system via Jupyter 4.3 JUPITER, training2526, LoginNode
- \rightarrow https://go.fzj.de/mg-jup
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2526/env.sh
- Gather course material
 \$ jsc-material-sync

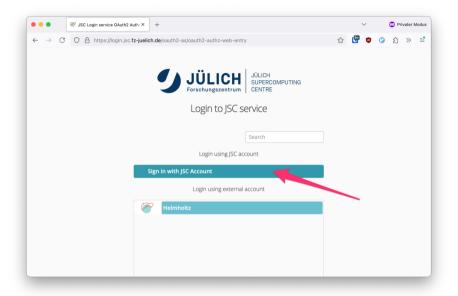


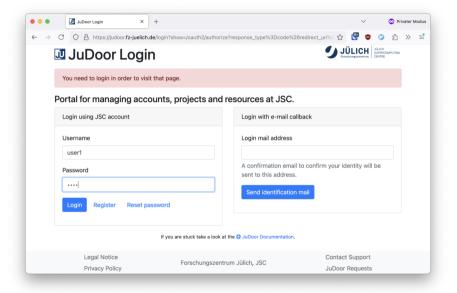
¹Unshortened link: https://github.com/FZJ-JSC/tutorial-multi-gpu/

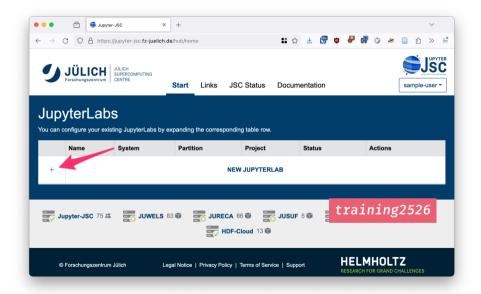


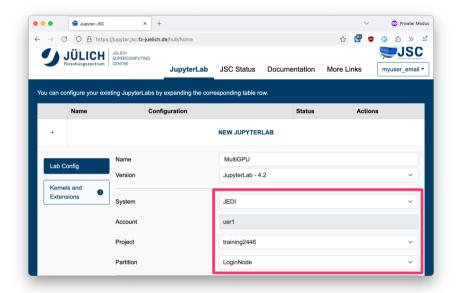


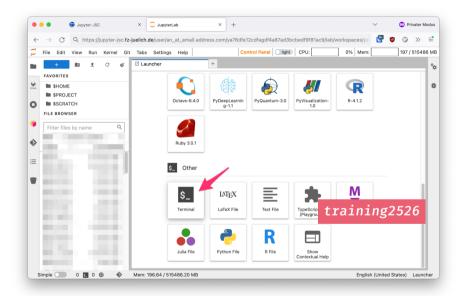


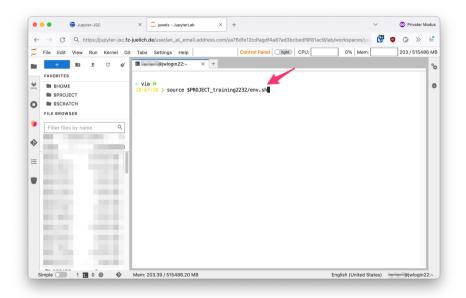


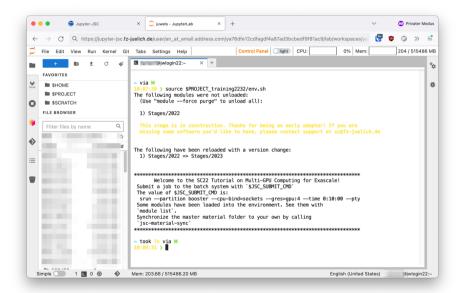












 Everything listed on GitHub repo of tutorial:

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

- 1 Create JSC account at JuDoor
- 2 Join training2526 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 💶 Wait 15 minutes 👯
- 5 Access system via Jupyter 4.3 JUPITER, training2526, LoginNode
- → https://go.fzj.de/mg-jup
- Source course environment in a Jupyter Shell \$ source \$PROJECT_training2526/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





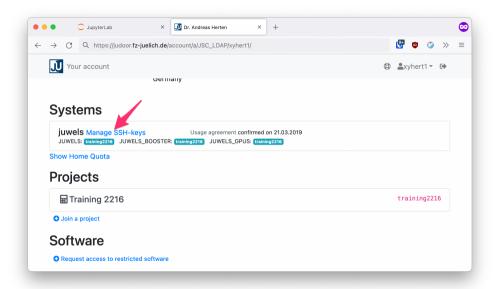
SSH Login

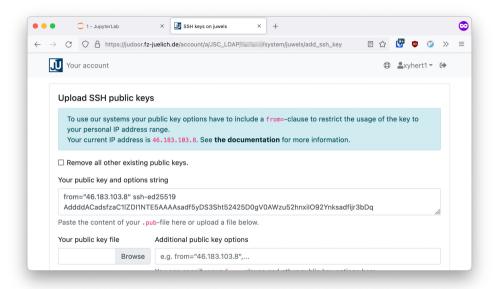
- Login with SSH available
- We recommend Jupyter JSC: easier, more features
- Add SSH key via JuDoor to JUWELS Booster
- Important: from clause (limits connections to be from defined sources)
- Example

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

- \rightarrow SSH:ssh user1@login.jupiter.fz-juelich.de
 - Help at apps.fz-juelich.de/jsc/hps/juwels/access.html







QR Codes



GitHub repo:

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



JuDoor:

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



Jupyter Portal:

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

