

JUWELS BOOSTER ONBOARDING ISC24 TUTORIAL SESSION 1B

12 May 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/

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- 1 Create JSC account at JuDoor
- Join training2416 project
- → https://go.fzj.de/mg-jd
- 3 Accept usage agreement
- 💶 Wait 15 minutes 🕰
- 5 Access system via Jupyter 3.6 JUWELS, training2416, LoginNodeBooster
- ightarrow jupyter-jsc.fz-juelich.de
- Source course environment in a Jupyter Shell
 \$ source \$PROJECT training2416/env.sh
- Gather course material
 \$ jsc-material-sync



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- We'll repeat the following steps in the first hands-on session

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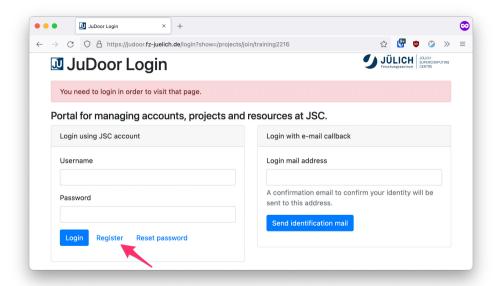
Swapcard

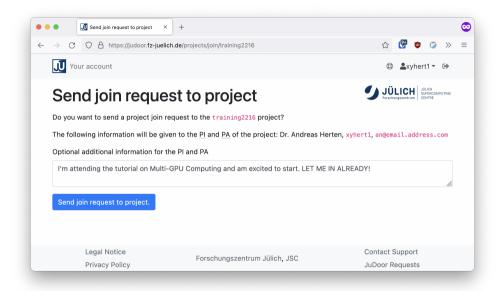
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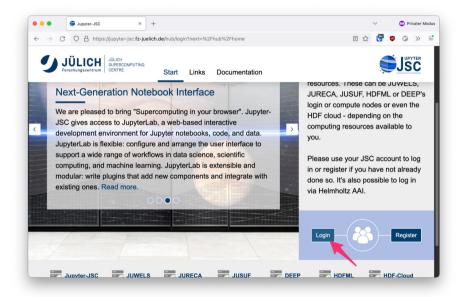
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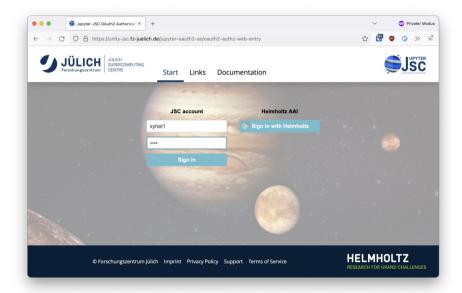


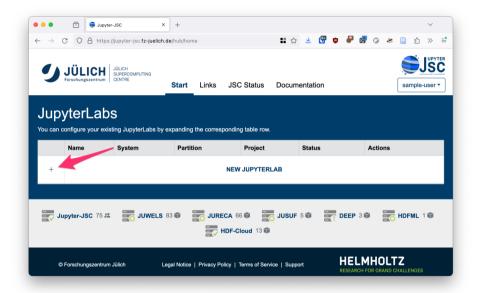
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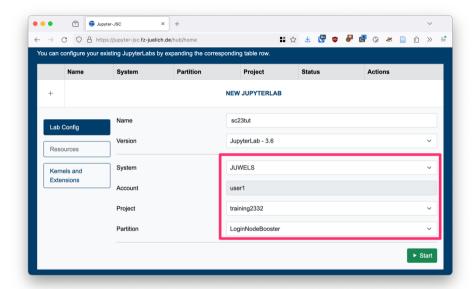


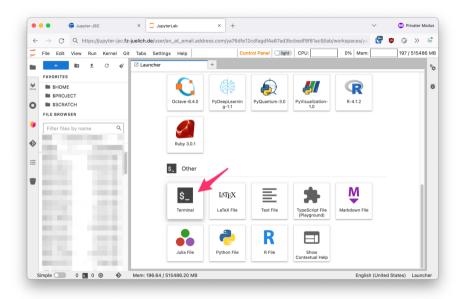


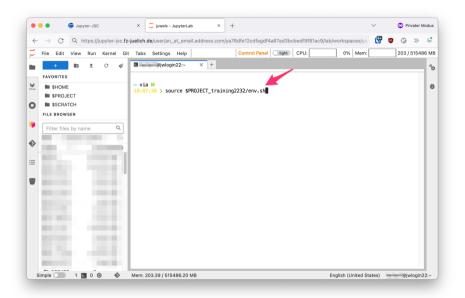




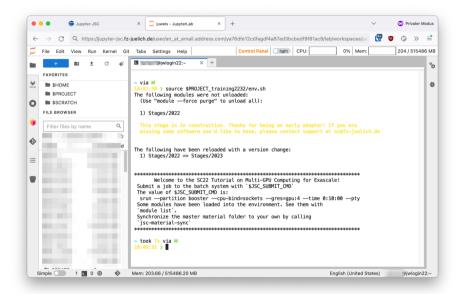








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Profiling Tools

- Extra Credits: Prepare for *Profiling Session*
- Download Nsight Systems now; install!
- → developer.nvidia.com/gameworksdownload#?dn=nsight-systems-2023-2
 - 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="140.221.0.0/16.2001:468:1F07::/48" ssh-ed25519 AddddACadsfzaC1\ZDI1NTE5AAAAsa
- ightarrow SSH:ssh user1@juwels-booster.fz-juelich.de
 - Help at apps.fz-juelich.de/jsc/hps/juwels/access.html



