



JEDI ONBOARDING

SC24 TUTORIAL *SESSION 1B*

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

Accessing JEDI

- Everything listed on GitHub repo of tutorial:
[`https://go.fzj.de/mg-gh`](https://go.fzj.de/mg-gh)¹

¹Unshortened link: [`https://github.com/FZJ-JSC/tutorial-multi-gpu/`](https://github.com/FZJ-JSC/tutorial-multi-gpu/)

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→ <https://go.fzj.de/mg-jd>
- 3 Accept usage agreement
- 4 Wait 15 minutes ⚙️
- 5 Access system via Jupyter 4.2
JEDI, training2446, LoginNode
→ jupyter-jsc.fz-juelich.de
- 6 Source course environment in a Jupyter Shell
\$ `source $PROJECT_training2446/env.sh`
- 7 Gather course material
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JuDoor Login

https://judoor.fz-juelich.de/login?show=/projects/join/training2216

JU Jülich Forschungszentrum JÜLICH SUPERCOMPUTING CENTRE

You need to login in order to visit that page.

Portal for managing accounts, projects and resources at JSC.

Login using JSC account

Username

Password

[Login](#) [Register](#) [Reset password](#)

Login with e-mail callback

Login mail address

A confirmation email to confirm your identity will be sent to this address.

[Send identification mail](#)

Send join request to project

https://judoor.fz-juelich.de/projects/join/training2216

JU Your account

xyhert1

Send join request to project

Do you want to send a project join request to the **training2216** project?

The following information will be given to the PI and PA of the project: Dr. Andreas Herten, **xyhert1**, **an@email.address.com**

Optional additional information for the PI and PA

I'm attending the tutorial on Multi-GPU Computing and am excited to start. LET ME IN ALREADY!

Send join request to project.

training2446

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Contact Support

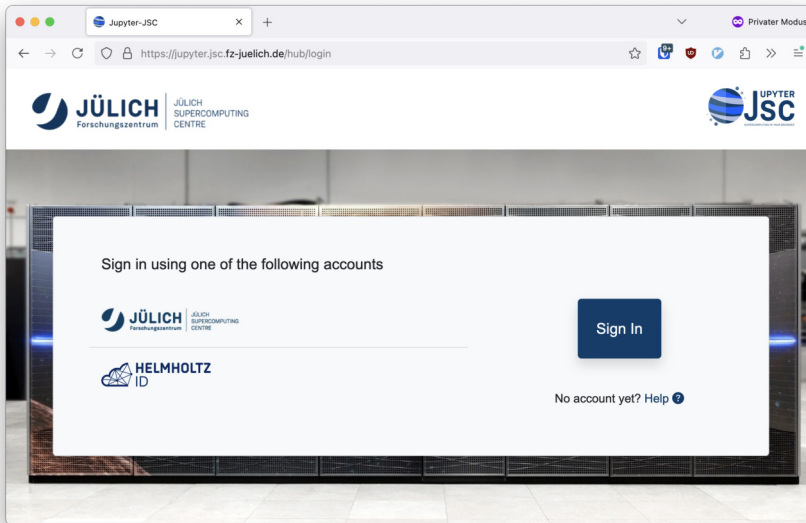
JuDoor Requests

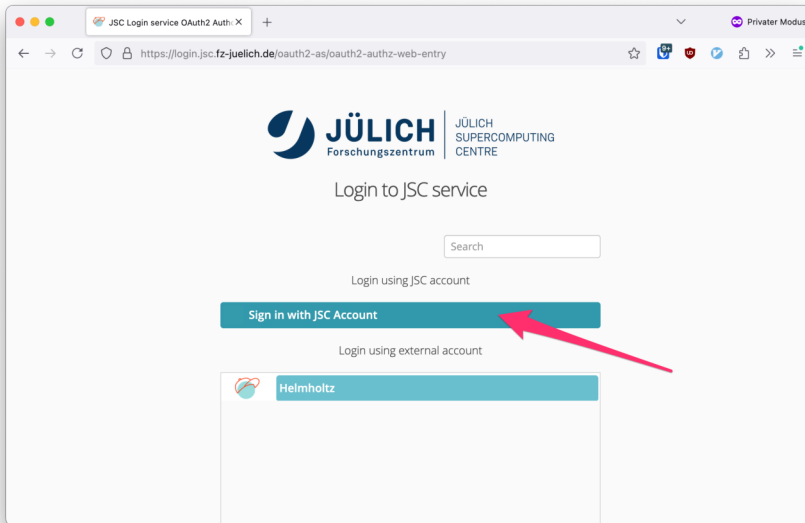
Member of the Helmholtz Association

17 November 2024

Slide 214

go.fzj.de/mg-jd and jupyter-jsc.fz-juelich.de







Jupyter-JSC

https://jupyter-jsc.fz-juelich.de/hub/home

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UPYTER Jsc

sample-user

Start Links JSC Status Documentation

JupyterLabs

You can configure your existing JupyterLabs by expanding the corresponding table row.

	Name	System	Partition	Project	Status	Actions
+	NEW JUPYTERLAB					

Jupyter-JSC 75 JUWELS 83 JURECA 66 JUSUF 5 HDF-Cloud 13

training2446

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HELMHOLTZ RESEARCH FOR GRAND CHALLENGES

Jupyter-JSC

https://jupyter.jsc.fz-juelich.de/hub/home

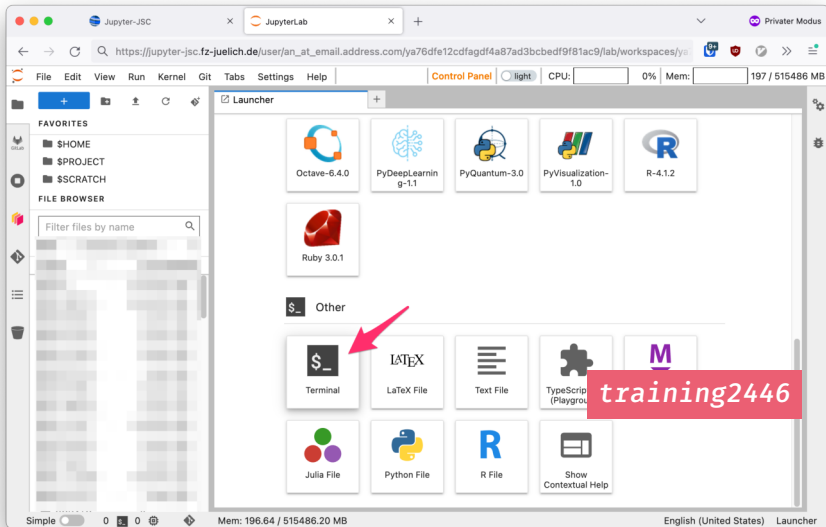
JÜLICH Forschungszentrum JÜLICH SUPERCOMPUTING CENTRE

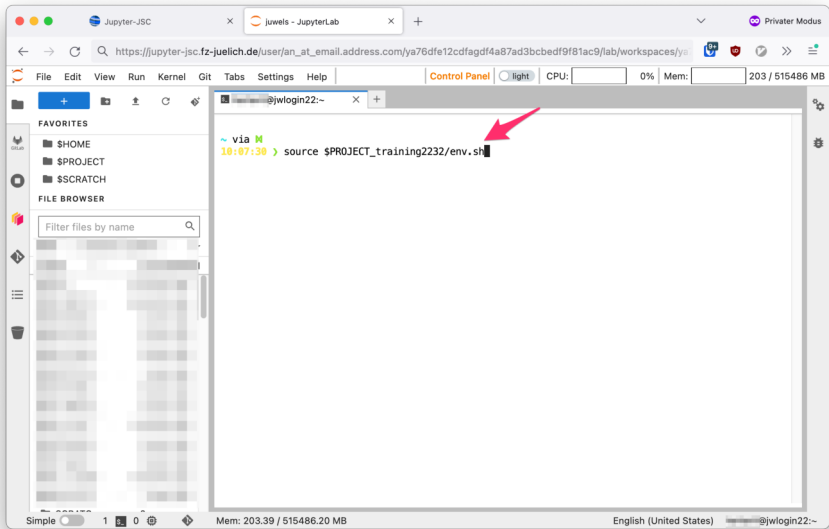
JSC

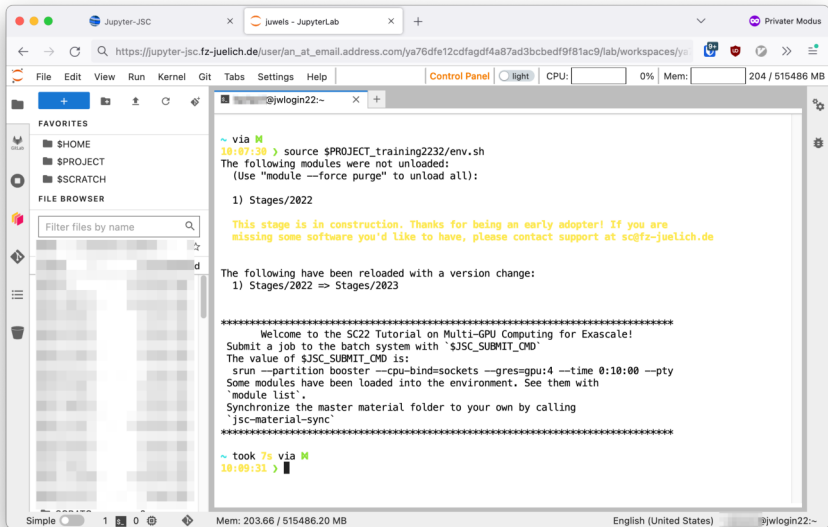
JupyterLab JSC Status Documentation More Links myuser_email

You can configure your existing JupyterLabs by expanding the corresponding table row.

	Name	Configuration	Status	Actions
+	NEW JUPYTERLAB			
Lab Config	Name	MultiGPU		
	Version	JupyterLab - 4.2		
Kernels and Extensions	System	JEDI		
	Account	usr1		
	Project	training2446		
	Partition	LoginNode		







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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

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 AddddACadsfzaC1lZDI1NTE5AAAAAsa  
# 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

JupyterLab Dr. Andreas Herten

https://judoor.fz-juelich.de/account/a/JSC_LDAP/xyhert1/

JU Your account Germany xyhert1


Systems

juwels [Manage SSH-keys](#) Usage agreement confirmed on 21.03.2019

JUWELS: **training2216** JUWELS_BOOSTER: **training2216** JUWELS_GPUS: **training2216**

[Show Home Quota](#)

Projects

 **Training 2216** **training2216**

[Join a project](#)

Software

[Request access to restricted software](#)

1 - JupyterLab SSH keys on juwels

https://judoor.fz-juelich.de/account/a/JSC_LDAP/.../system/juwels/add_ssh_key

JU Your account xyhert1

Upload SSH public keys

To use our systems your public key options have to include a **from=**-clause to restrict the usage of the key to your personal IP address range.
Your current IP address is **46.183.103.8**. See **the documentation** for more information.

☐ Remove all other existing public keys.

Your public key and options string

```
from="46.183.103.8" ssh-ed25519  
AddddACadsfzaC1lZDI1NTE5AAAAAsadf5yDS3Sht52425D0gV0AWzu52hnxiIO92Ynksadfijr3bDq
```

Paste the content of your **.pub**-file here or upload a file below.

Your public key file	Additional public key options
<input type="text"/> <input type="button" value="Browse"/>	<input type="text" value='e.g. from="46.183.103.8",...'/>