



Access to JUSUF

How to get your account on JSC ressources - a walkthrough

2024-04-08 | MARINA GANEVA^{1,2}, PAUL BAUMEISTER^{2,3}

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JSC Cluster (and Cloud) System JUSUF

- 144 CPU-only Nodes:
 - 2× AMD EPYC 7742, 2× 64 cores, 2.25 GHz
 - 256 GB DDR4, 3200 MHz
- 61 GPU-accelerated Nodes:
 - 2× AMD EPYC 7742, 2× 64 cores, 2.25 GHz
 - 256 GB DDR4, 3200 MHz
 - 1× NVIDIA V100 GPU with 16 GB HBM2e



How to get access to HPC ressources

Understand the abbreviations

- HPC – High Performance Computing
- FZJ – Forschungszentrum Jülich (Research Centre in Germany)
- JSC – Jülich Supercomputing Center (an institute of FZJ)
- JUSUF – A mid-sized supercomputing system at JSC
- PI -- Private Investigator
- PA -- Project Administrator

Step #1 – Open the link and register

For access to JUWELS, we need to create a JSC login first

<https://judoor.fz-juelich.de/projects/join/training2407>

← Step #1a: Open

The screenshot shows the JuDoor Login page. At the top, there is a navigation bar with a back button, a URL field containing "https://judoor.fz-juelich.de/login?show=/projects/join/training2407", and several icons. Below the navigation is the Jülich Forschungszentrum logo and the text "JuDoor Login". A pink banner message says "You need to login in order to visit that page." The main content area is titled "Portal for managing accounts, projects and resources at JSC." It contains two login options: "Login using JSC account" and "Login with e-mail callback". The "Login using JSC account" section has fields for "Username" and "Password", and buttons for "Login", "Register", and "Reset password". The "Login with e-mail callback" section has a field for "Login mail address" and a button for "Send identification mail". A note below the "Send identification mail" button states: "A confirmation email to confirm your identity will be sent to this address."

You need to login in order to visit that page.

Portal for managing accounts, projects and resources at JSC.

Login using JSC account

Login with e-mail callback

Username

Password

Send identification mail

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

Login Register

Reset password

← Step #1b: Register

Step #2 – Enter your email address

Please use the same email address as for the course registration!

Account registration

Your mail address

We will send an email to this address containing a link to complete the registration process.

Send confirmation mail...

JÜLICH
Forschungszentrum

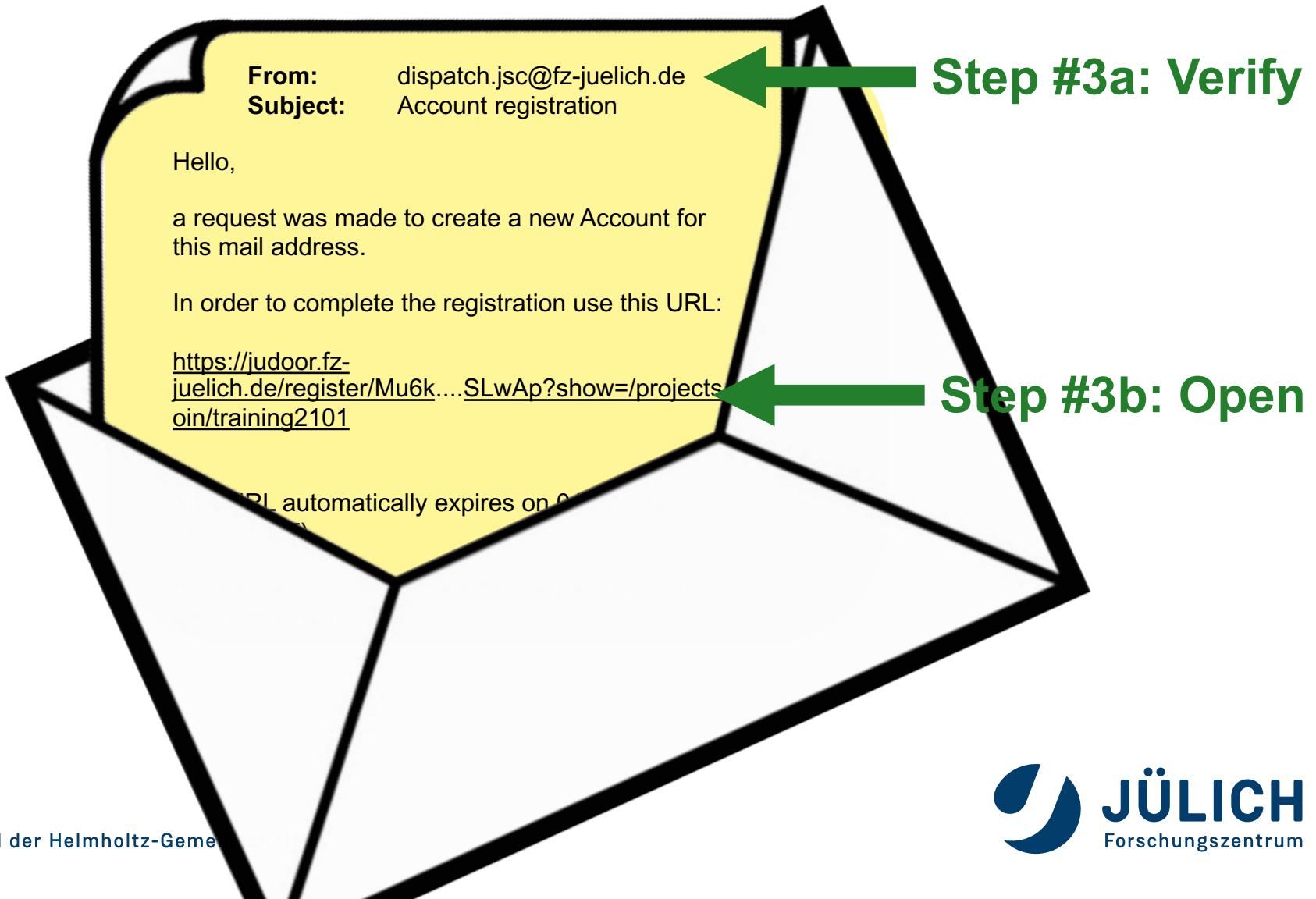
Legal Notice Forschungszentrum Jülich, JSC Contact Support
Privacy Policy JuDoor Requests

← Step #2a: Address

← Step #2b: Send

Step #3 – Check your mails

Please verify the sender before opening the link



Step #4 – Fill in the registration form

The screenshot shows a web browser window with the URL judoor.fz-juelich.de. The page title is "Account registration". The form includes fields for Email (with value "paul.baumeister@rwth-aachen.de"), Salutation (dropdown menu with "Choose..."), Given name, Family name, Institution, Street, P.O. box, Postcode, City, Federal State (only Germany), Country (dropdown menu with "Select a country"), Prefix, Telephone, Password, Repeat Password, and a checkbox for "I accept the Privacy Policy". A blue button at the bottom right says "Complete registration". The Jülich logo is in the top right corner.

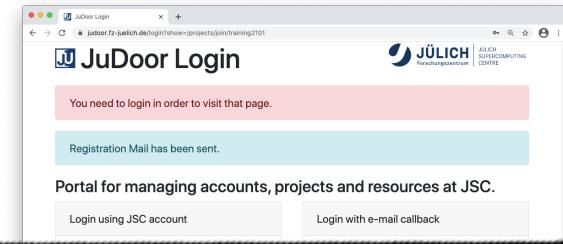
Step #4a: Required fields
are marked in bold font

Step #4b: Create a new
password

Step #4c: Accept policy
and complete registration

Step #5 – Get your username

JuDoor: „Registration Mail has been sent.“



**JSC usernames
are composed:
<familyname><digit>**

From: dispatch.jsc@fz-juelich.de
Subject: New Account for JSC-Services for paul.baumeister

Dear Dr. Paul Baumeister,

The Jülich Supercomputer Center has implemented a uniform access
The authorization will be performed via LDAP with username and pass

Today your account for using JuDoor has been created with the pass

Your username :

baumeister3

Step #5: Remember

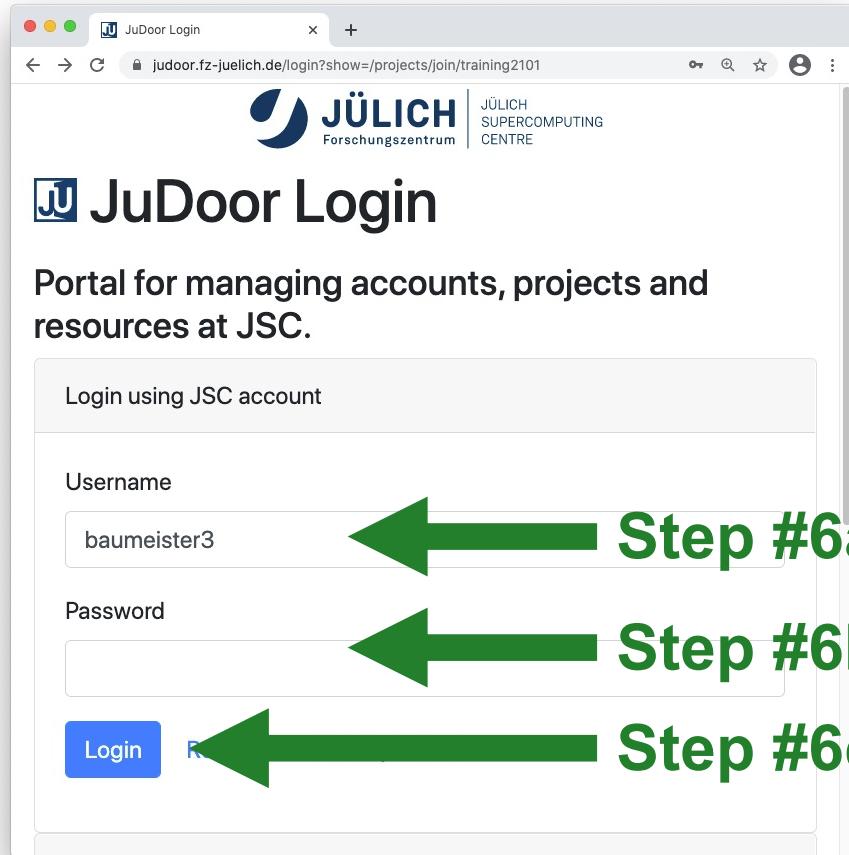
To set a new password or changing the password use the

https://judoor.fz-juelich.de/reset_password

**Do not click on the
password reset link**

Step #6 – Login to JuDoor

<https://judoor.fz-juelich.de/projects/join/training2101>



Step #7 – Send us a join request

Send join request to project

Do you want to send a project join request to the [training2101](#) project?

The following information will be given to the PI and PA of the project: Dr. Paul Baumeister, baumeister3, paul.baumeister@rwth-aachen.de

Optional additional information for the PI and PA

Send join request to project.

Step #8 – Wait for us to answer

Now JuDoor should look roughly like this

The screenshot shows the JuDoor web application interface. At the top, there is a header with the JU logo on the left and a menu icon (three horizontal lines) on the right. Below the header, the JÜLICH Supercomputing Centre logo is displayed. The main content area is divided into several sections:

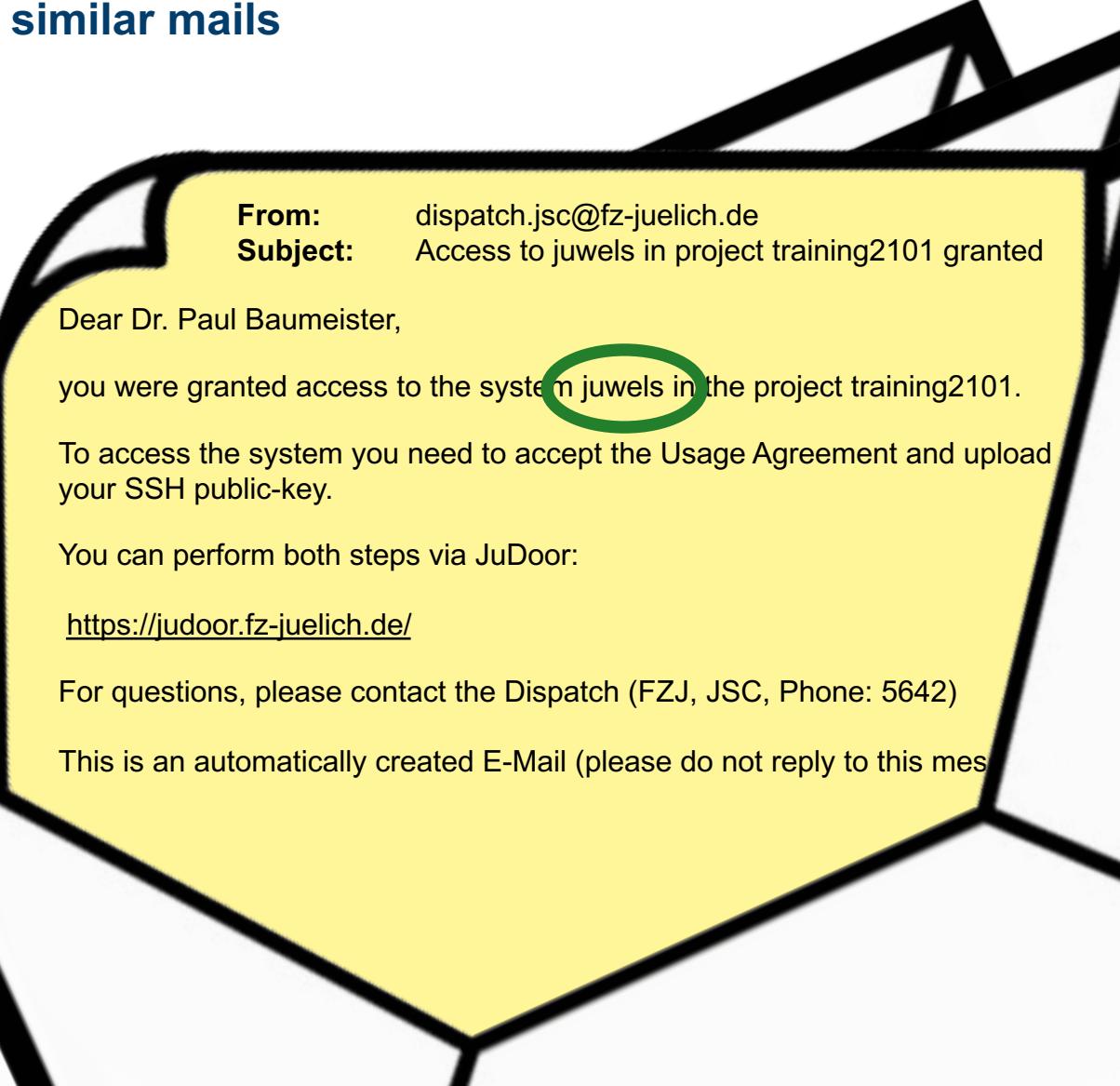
- Account:** Shows the account name "baumeister3".
- Systems:** A message states "Currently this account cannot access any systems."
- Projects:** A message states "Your request to join **training2101** is being evaluated."

A large green banner at the bottom of the page reads "Step #8: Wait".

Step #9 – Access granted

Make sure you receive 3 similar mails

- judac (data access only)
- juwels (CPU cluster)
- juwels_booster (GPUs)



From: dispatch.jsc@fz-juelich.de
Subject: Access to juwels in project training2101 granted

Dear Dr. Paul Baumeister,

you were granted access to the system **juwels** in the project training2101.

To access the system you need to accept the Usage Agreement and upload your SSH public-key.

You can perform both steps via JuDoor:

<https://judoor.fz-juelich.de/>

For questions, please contact the Dispatch (FZJ, JSC, Phone: 5642)

This is an automatically created E-Mail (please do not reply to this mes

Step #10 – Login to JuDoor

<https://judoor.fz-juelich.de> login with credentials
as in step #6. JuDoor should now look like this

The screenshot shows the JuDoor web interface with the title "Systems". Under the "Systems" heading, there are two entries: "judac" and "juwels". Both entries have a yellow button labeled "training2101" with a pencil icon. A green arrow points from the text "Step #10: Open usage agreement" to the "juwels" entry.

Systems

judac
You need to [sign the usage agreement](#) to access this system
[training2101](#)

juwels
You need to [sign the usage agreement](#) to access this system
JUWELS: [training2101](#) JUWELS BOOSTER: [training2101](#)

Projects

LENS Machine Learning School 2021 [training2101](#)

[Join a project](#)

Step #10: Open usage agreement

Step #11 – Read and sign

Please read it carefully

Usage Agreement for Access

judoor.fz-juelich.de/account/a/JSC_LDAP/bau...

JU

Details to applicable export control regulations are available at:

<http://www.bafa.de/DE/Aussenwirtschaft/Ausfuhrkontrolle/Rechtsgrundlagen.html>

<http://www.bafa.de/DE/Aussenwirtschaft/Ausfuhrkontrolle/Embargos.html>

I will notify Jülich Supercomputing Centre at Forschungszentrum Jülich about any relevant change of the current research topic.

I accept the agreement.

Submit

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Privacy Policy

Contact Support
JuDoor Requests

Needs to be done for

- judac
- juwels

Step #11a: Tick box

Step #11b: Submit

Step #12 – Sign one more

Repeat steps #10 and #11 for the data access system judac

Dr. Paul Baumeister

Confirmed the usage agreement for juwels

Account baumeister3

E-mail address paul.baumeister@rwth-aachen.de

Telephone +49 246161 3597

Address JSC
Wilhelm-Johnen-Str
52425 Juelich
Germany

Systems

judac	You need to sign the usage agreement to use this system.
juwels	Manage SSH-keys

juwels Usage agreement confirmed on 02.02.2021
JUWELS: [training2101](#) JUWELS BOOSTER: [training2101](#)

Needs to be done for

- judac
- juwels

Step #12: Sign

Step #13 – Wait for mail



Systems

Confirmed the usage agreement for judac

judac Manage SSH-keys

Usage agreement confirmed on 02.02.2021

training2101

still pending, but ok

juwels Manage SSH-keys

Usage agreement confirmed on 02.02.2021

JUWELS: training2101

JUWELS_BOOSTER: training2101

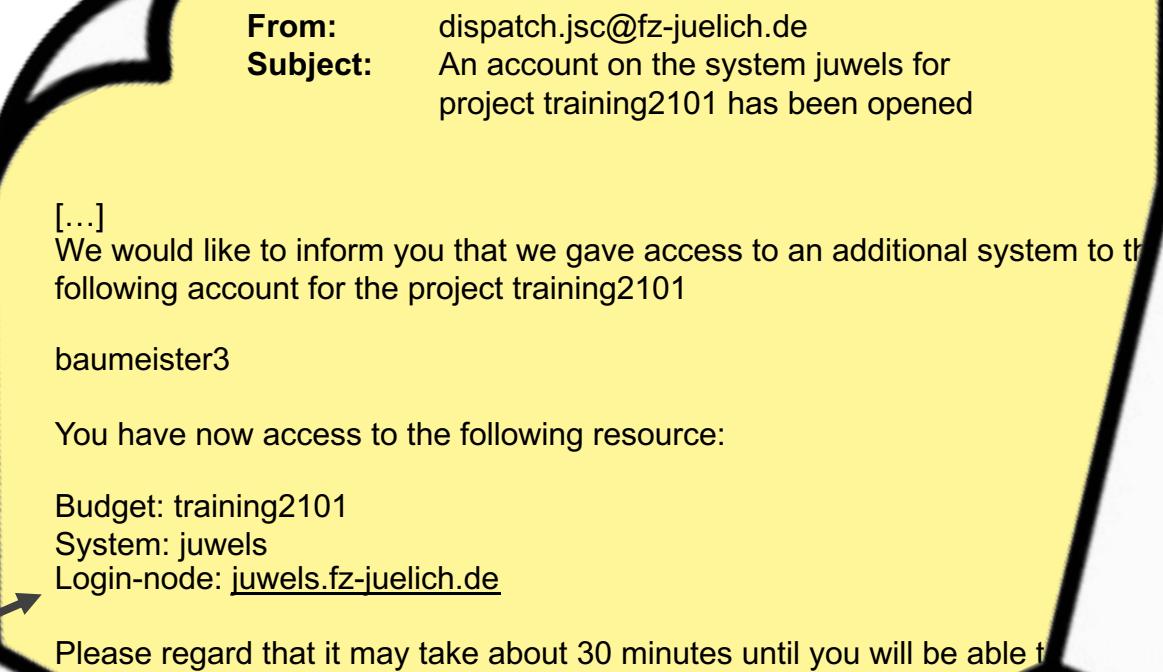


Step #13: Check mail

Step #14 – Accounts opened

Make sure you received 3 similar mails

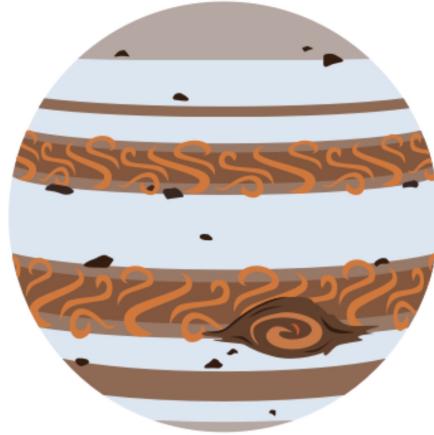
- juwels
- juwels_booster
- judac



SSH access now possible, see „Manage SSH-keys“ in JuDoor

Step #15 – Celebrate

You are half way ...



... to ~~Jupiter~~ Jupyter

Step #15: Open link ➔ <https://jupyter-jsc.fz-juelich.de>

Step #16 – <https://jupyter-jsc.fz-juelich.de>

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JÜLICH SUPERCOMPUTING CENTRE

Login JSC Status Documentation More Links

Jupyter-JSC
Supercomputing in Your Browser

We are pleased to bring "Supercomputing in your browser".

Jupyter-JSC is designed to provide the rich high performance computing (HPC) ecosystem to the world's most popular software: web browsers. JupyterLab is a web-based interactive development environment for Jupyter notebooks, code, and data. JupyterLab is flexible to support a wide range of workflows in data science, scientific computing, and machine learning. [Read more.](#)

Please use your JSC account to log in or register if you have not already done so. It's also possible to log in via Helmholtz AAI. [?](#)

[Login](#)

Jupyter-JSC 74 JUWELS 33 JURECA 18 JUSUF 4

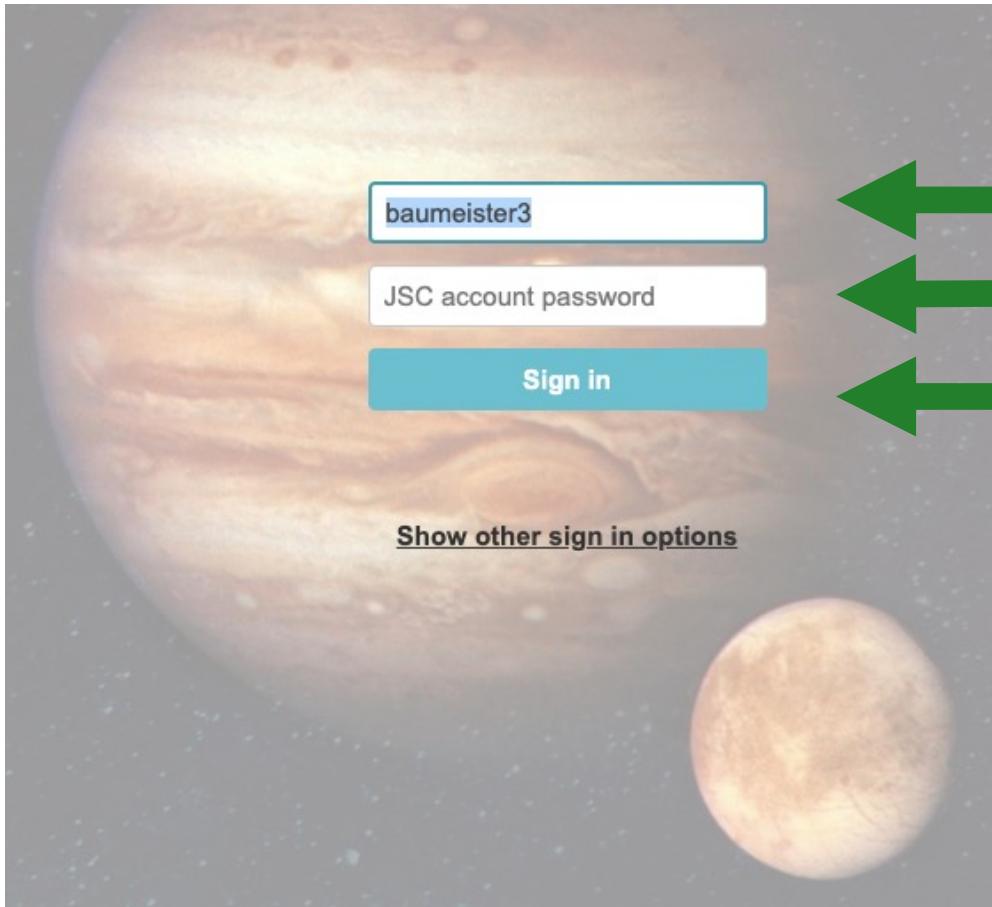
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HELMHOLTZ RESEARCH FOR GRAND CHALLENGES

Step #16: Login

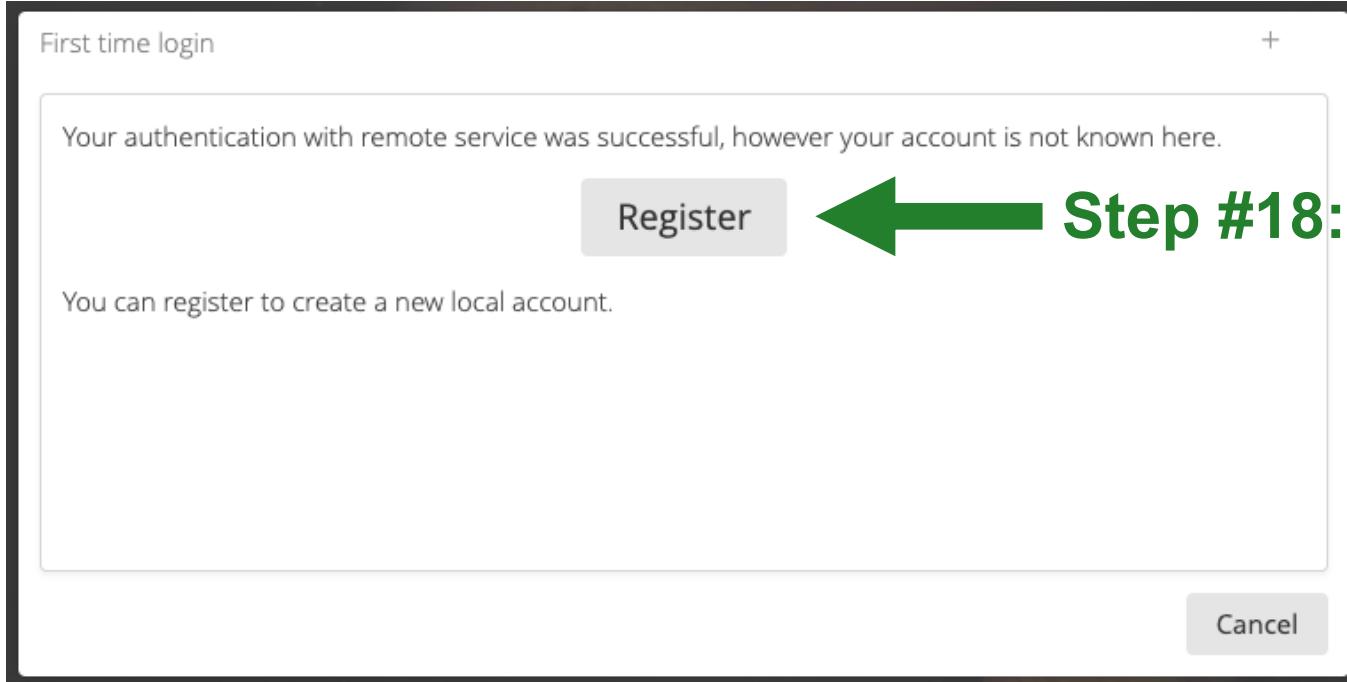
Step #17 – Login with JSC account

Use credentials from step #4 and #5



- ← Step #17a: Username
- ← Step #17b: Password
- ← Step #17c: Sign in

Step #18 – Register service



Step #19 – Read and agree

Registration form



UPYTER
JSC
SUPERCOMPUTING IN YOUR BROWSER

Declaration of consent

This service is operated for the purpose of access to connected services provided by the Juelich Supercomputing Centre (JSC). The connected services may present additional Terms of Service.

► [Terms of Service of the JSC Authentication Service](#) (please expand)
► [Privacy Policy of the JSC Authentication Service](#) (please expand)

I have read and understood the terms of use and agree to them unconditionally.
I have been informed that I can withdraw my consent at any time.

I agree
(mandatory)

Cancel Submit

Step #19a: Tick

Step #19b: Submit

Step #20 – Check your mails again

Please verify the sender before opening the confirmation link



Step #21 – Login to Jupyter again

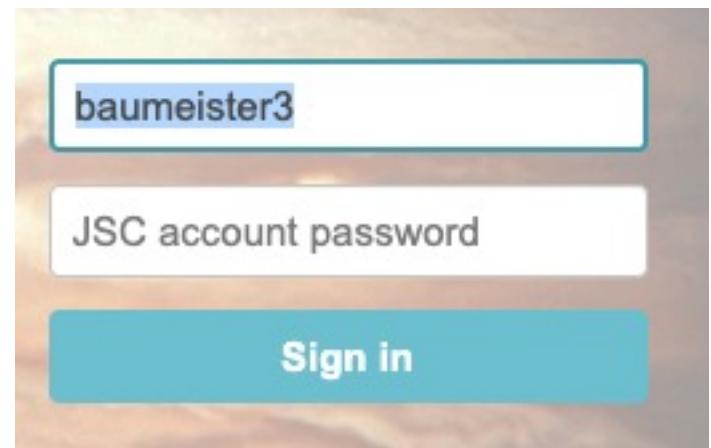
<https://jupyter-jsc.fz-juelich.de>



Step #21a: Login



Step #21b:
see step #17



Step #22 – Welcome to Jupyter

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

	Name	Configuration	Status	Actions
+	NEW JUPYTERLAB			

← Step #22a: Add a new lab

	Name	Configuration	Status	Actions
+	NEW JUPYTERLAB			

Lab Config

Name: Give your lab a name
Version: JupyterLab - 3.6

Resources

System: JUSUF

Account: baumeister1

Kernels and Extensions

Project: training2407

Partition: LoginNode

Start

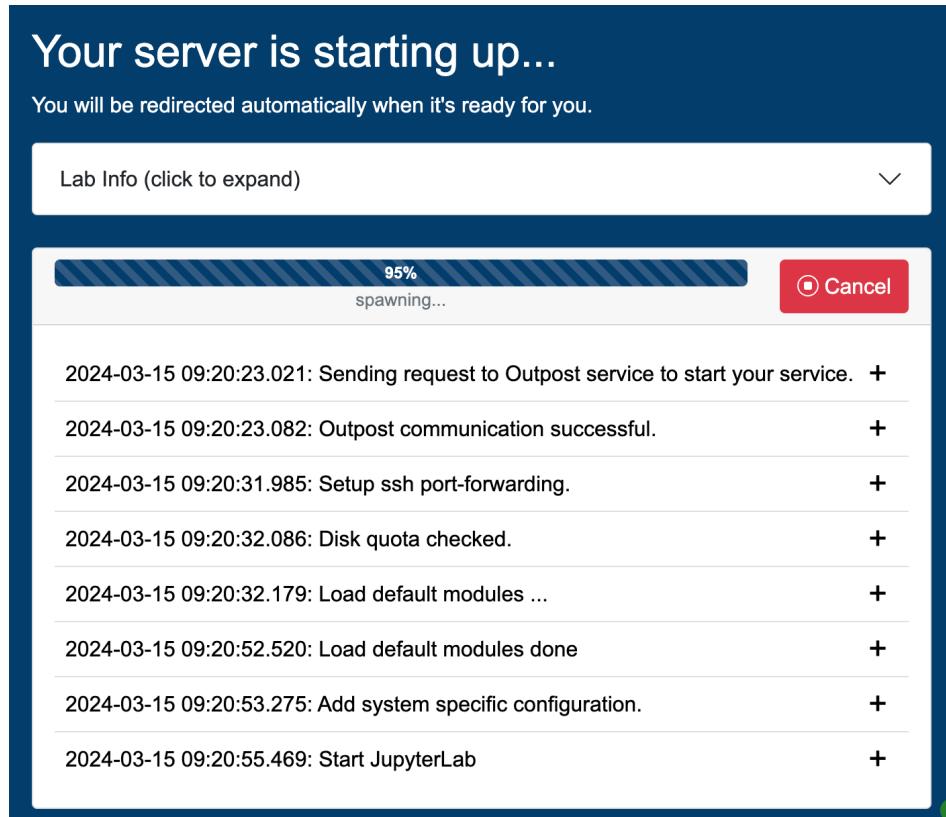
← Step #22b: Configure like shown here

Q: Why can I only choose HDF-Cloud, not JUWELS?

A: Please wait some minutes, use F5 to refresh.

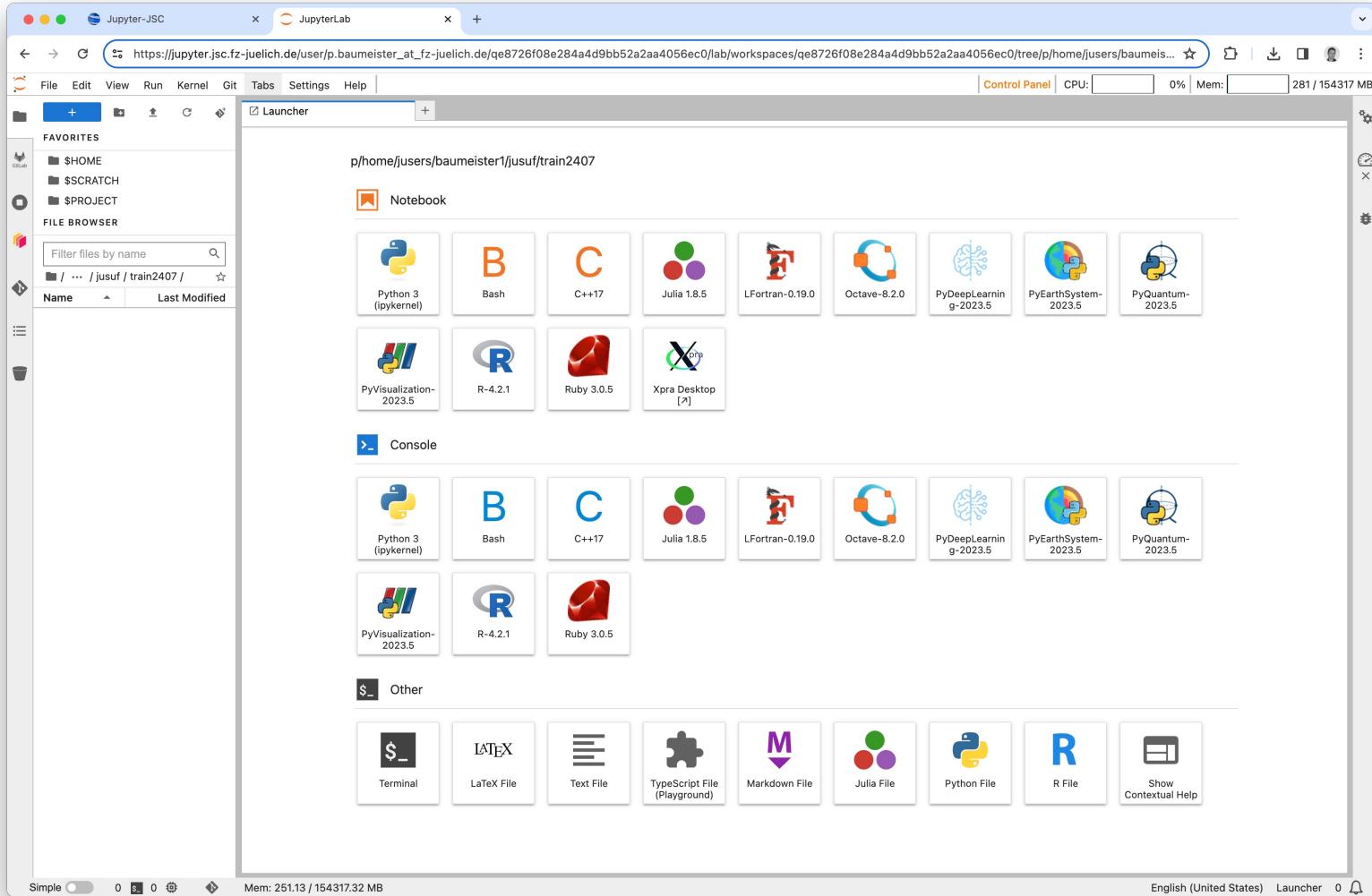
← Step #22c: Start

Step #23 – Wait for resources



Step #23: Wait

Step #24 – Ready to launch



Support

Please contact us when questions arise

To: Paul Baumeister p.baumeister@fz-juelich.de

cc: Marina Ganeva m.ganeva@fz-juelich.de