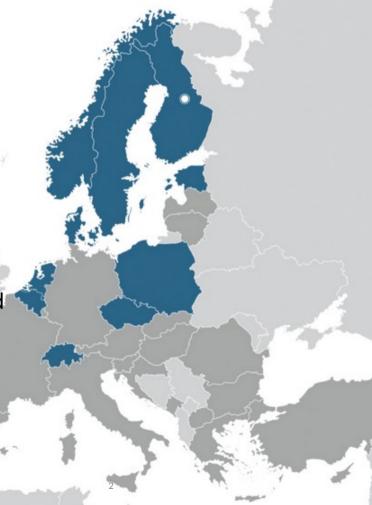


LUMI User Support

How is the LUMI support organized?

- Centralized virtual help desk run by the distributed LUMI User Support team (LUST)
 - · The model is based on a network of dedicated HPC experts
 - Each partner provides 1 FTE
- Level-3 support via local centers, EuroHPC Competence Centers, HPE and AMD
- National support for issues with accounts and allocations



Getting help

LUST offers

- Extensive documentation https://docs.lumi-supercomputer.eu
- Help desk (also for future users)
 https://lumi-supercomputer.eu/user-support/need-help
- Trainings in connection with CoE https://lumi-supercomputer.eu/events
- Hackathon (1-2 times per year)
- Porting calls (1-2 times per year)
- Monthly public coffee breaks to discuss problems & papercuts
- Collaboration with local organisation to offer advanced software specific help



docs.lumi-supercomputer.eu

Divided into 6 main sections



Q Search

Home First steps Hardware Run jobs Software Developing Storage Help desk

Welcome

Welcome to the LUMI supercomputer user guide. To navigate this guide, select a category from the navigation bar at the top of the page or use the search function.

You have not connected to LUMI yet? Please visit the first steps section to get started.

→ First steps

lumi-supercomputer.github.io/LUMI-training-materials/

Recordings and slides of all trainings organized by LUST



LUMI training materials

>

Q Search

LUMI training materials

Home

User Updates
User Coffee Breaks

Advanced III IAN October 1

Advanced LUMI October 2024

Hackathon October 2024
Profiling October 2024

Performance Analysis & Optimization

Cup areamouting with IIIMI May

June 2024

Al workshop May 2024

Overview of LUMI trainings

Organised by LUST in cooperation with partners

Regular trainings

Upcoming or currently running events with materials already partly available:

• Advanced LUMI course (October 28-31, 2024)

Most recently completed main training ayants

Table of contents

Organised by LUST in cooper with partners

Regular trainings

LUMI User Coffee Break Tal

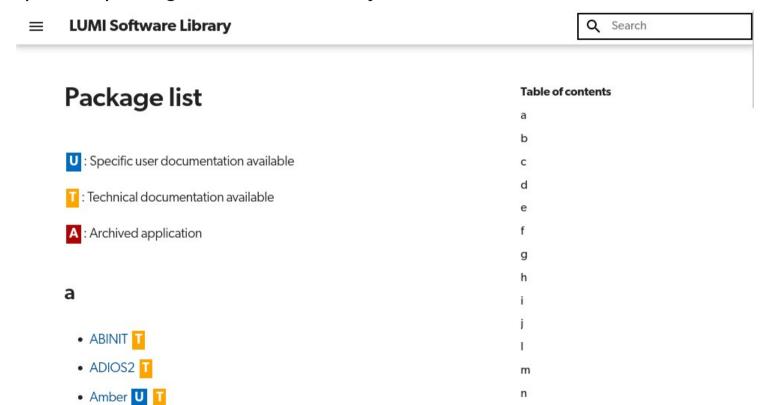
Recent courses made availab LUMI consortium partners an

Course archive

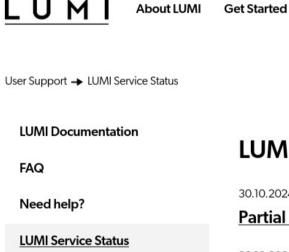
LUST-provided regular train

Courses made available by consortium partners and Co

lumi-supercomputer.github.io/LUMI-EasyBuild-docs



www.lumi-supercomputer.eu/lumi-service-status/



LUMI Service Status

News and Articles

30.10.2024

Partial unavailability and increased queuing times

28.10.2024

Flash system issue and interruption of account and project sync

22.10.2024

[Resolved] Slurm losing connection with a large number of nodes

Events and Training

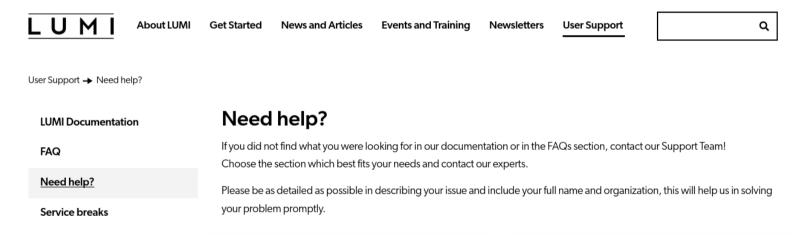
Newsletters

User Support

Getting help from us

Available Monday to Friday 8:00–18:00 CE(S)T

https://lumi-supercomputer.eu/user-support/need-help



General



General enquirers about LUMI, LUMI documentation, trainings and any other question.

Account



Problems related to accounts on LUMI, login issues, and access.

The ticketing system

- Typically ~15 new requests per day
- A new form opens a "ticket"
- The first thing we see is the subject
- Each new ticket gets a new number
- Reply to email/ticket is filed under the same number
- Tickets/issues have owners but owners can change



How not to write a ticket

Problems on LUMI

Hi,

I have problems loging into LUMI. Can you help me?

Thanks

John Doe

How to write a ticket

Sudden SSH login issue

Hi,

I am user "johndoe" on the cluster LUMI with the project XXXX and since this morning I can't log in anymore.

I have tried to log into one of my local clusters and this works.

I use ssh keys to log in and the error that I get since this morning is:

\$ ssh lumi

johndoe@lumi: Permission denied

(publickey,gssapi-keyex,gssapi-with-mic,password,hostbased).

Thank you in advance for help/advice on how to solve this,

John Doe

Create a ticket for each issue

- Don't reuse old emails with new problems
- New ticket with new subject line
- Easier for us to categorize & prioritize
- Faster answer
- But if persistent or connected issue
 - --> Reply to email and keep ticket number

Give descriptive & specific subject line

- Subject line the first thing we see
- Helps us categorize & prioritize your issue
- Include keywords like software used or research field
- Some examples
 - Bad: "Problem on LUMI"
 - Sighlty better: "Installation issue"
 - Good: "ICON installation requires li

Provide context

- Username, project number
- Which part of the machine (login node/LUMI-C/LUMI-G)?
- Which software? How did you install it?
- Tell us about your environment
 - Modules loaded
 - How was the software installed?
 - Special stuff in your .bashrc
 - How does your runscript look like?

Tell us what you have done before

- What worked so far?
- What changed?
- What did you try to solve the issue?
- "I cannot get X to run on two nodes" doesn't mention whether it runs on one node

Describe the original problem and intent

Often we know the solution but we don't know the problem

- Tell us your ultimate goal
- Original problem is sometimes masked by different problem
- XY problem (http://xyproblem.info)

Describe the original problem and intent

In short (quoting from http://xyproblem.info):

- User wants to do X
- User thinks that Y is a way to solve X
- User tries Y and hits a problem
- User asks for help with Y
- After much interaction it becomes clear that the user really wants help with X, and that Y wasn't even a suitable solution for X

Create an example

- If possible send us an example demostrating the problem
- Making the example smaller often simplifies the problem
- This process can help identifying the reason
- Reduce the number of possible reasons
- Eases our work
 - Helps narrow issue down
 - Saves time and resources
 - → More resources for helping users

Take our restrictions into account

LUST doesn't have elavated privileges on LUMI

- Can't access files → send us error messages and jobscripts
- Can't install/modify system packages or settings
- Can't extend walltime of jobs
- But we are in close contact to sys admins

Writing good support requests

- Create a ticket for each issue
- Give descriptive and specific subject line
- Provide context
- Tell us what you have done before
- Describe the original problem and intent (the XY problem)
- Create an example which reproduces the problem
- Take our restrictions into account

What can LUST not help you with?

- Installing software for you
- Project management (increasing compute/storage quotas)
- Introduction to HPC
- Complex/time consuming trouble shooting of your own code
- Providing advice with application specific/scientific problems
- Optimize code for you

What can LUST help you with?

- Login issues
- Help in preparing software installation recipes
- Job crashed & Slurm issues
- Poor performance
- Help with installing/compiling software
- Questions regarding compute and storage resources
- Limited work on adapting code to LUMI

We are here to help you

LUST can't do your work but we can support you in many aspects of your work.



Follow us

Twitter: @LUMIhpc

LinkedIn: <u>LUMI supercomputer</u>

YouTube: <u>LUMI supercomputer</u>

www.lumi-supercomputer.eu

contact@lumi-supercomputer.eu

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