

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



Helping yourself

docs.lumi-supercomputer.eu

Divided into 6 main sections



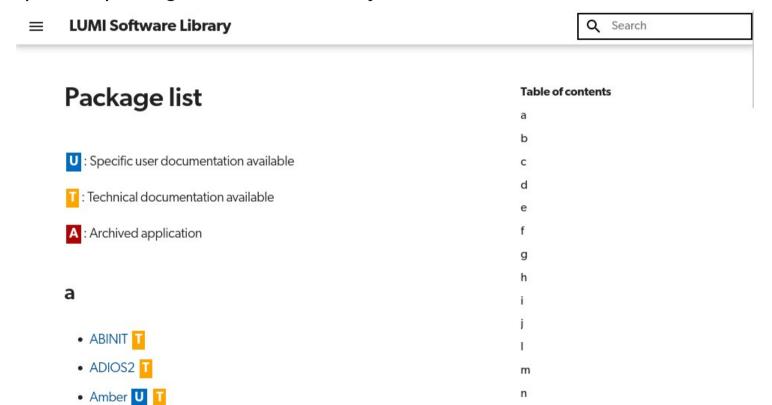
Overview GPU nodes - LUMI-G CPU nodes - LUMI-C Data analytics nodes - LUMI-D Network and interconnect Network and interconnect Overview Here you find a description of the LUMI system architecture and the different hardware partitions available on LUMI.

LUMI is one of the three European pre-exascale supercomputers. It's an HPE Cray EX

Q Search

Helping yourself

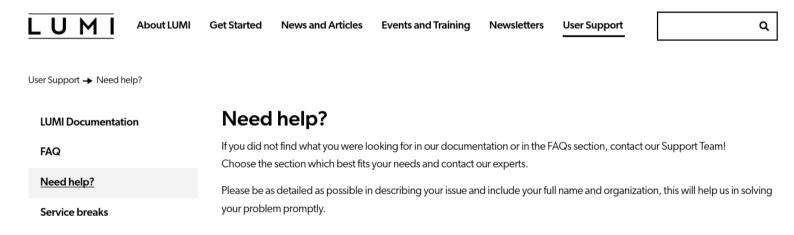
lumi-supercomputer.github.io/LUMI-EasyBuild-docs



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
 - "Problem on LUMI"
 - "Installation issue"
 - "ICON installation requires libxml2"

Provide context

- Username
- Which part of the machine (login node/LUMI-C/LUMI-G)?
- Which software?
- 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 apects of your work.

LUMI



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Twitter: @LUMIhpc

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