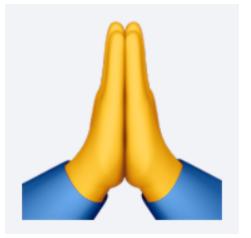
Help us help you

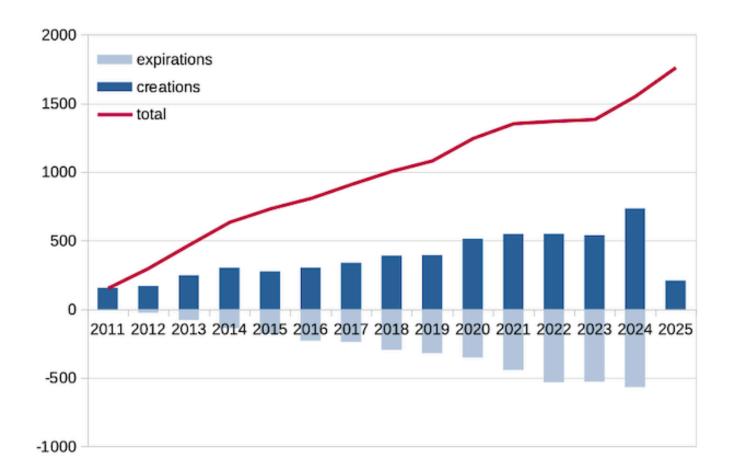


damien.francois@uclouvain.be

April 2025 - CÉCI users day - Lîdje

You, the CÉCI users, are legion

April 2011 - April 2025



We, the CÉCI administrators, are a small team



15 and rawette



- provide as much uptime as possible for the CÉCI infrastructure
- A accommodate a wide spectrum of workload types
- Imaximize resource (CPUs, GPUs, memory) utilization
- 🕜 minimize turnaround for your jobs

How can you help us?

Please spread the word:

- 1. play along with others
- 2. prepare your interactions with us
- 3. be demanding with yourself

play along with others



E Know the rules

- the rules of your university
- the rules of the university hosting the cluster you are using
- the rules of CÉCI: https://www.ceci-hpc.be/faq.html#2.5
- do not harm security
 - do not share secrets
 - do not give access to the clusters to others

The rules exist so that everyone's data are safe and secure



- agree to be registered to mailing lists for announcements related to the infrastructure or events we organise (a dozen email per year) and **read the emails**
- participate in the CÉCI user days, take the surveys
- **acknowledge** the CÉCI and other providers in your publications that use their infrastructure: https://www.ceci-hpc.be/faq.html#2.4

All this is important when requesting funding for the clusters

🧏 Do not game the system

- when we enforce something on users it is always to ensure fairness among users
- more constrains hinders performances and harms complex workflows
- stalking other users does not help; their science is as important as yours

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Be thoughtful of others

estimation and a set and

- Running anything CPU- or memory-intensive on the login node
- Submitting large amounts of jobs or large jobs without testing at a smaller scale first
- Performing excessive I/O on a global filesystem rather than on a local filesystem
- Leaving typos in the email options
- Leaving data on the scratch for ever
- Under-using allocated resources

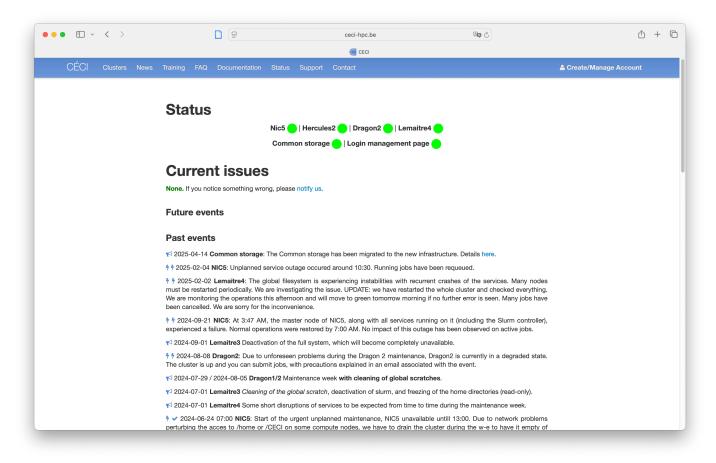
prepare your interactions with us

🤔 🔌 🎉 🚺 💬





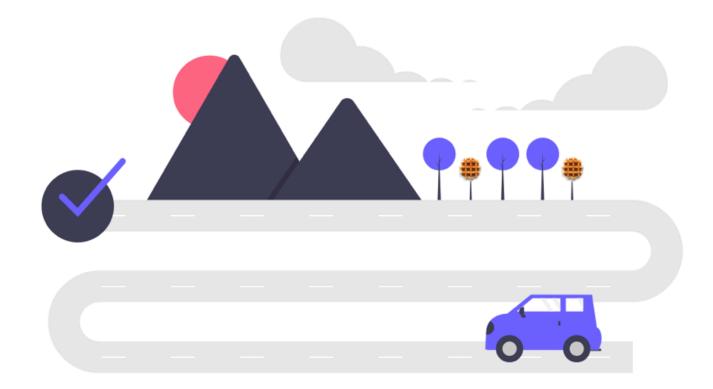












4. Provide all important information ("five W")

- ^A Who: what is your login?
- # What: what job ID, what file, what modules?
- ^A Where: which cluster, which directory?
- ⁽⁾ When: on which date, at what time?
- **Why**: what is the **p**roblem?

5. Give the exact error (copy/paste from terminal)



Final remarks

- the sooner we hear about a problem the sooner we can work on it
- one problem per request makes it easier to work in parallel
- reporting that a suggested solution does work helps to organise knowledge
- user requests are prioritized based on the **severity** of the problem

be demanding with yourself



Learn the basics before you use the clusters

- (1) Basics of **Operating systems**
- Desics of Text user interfaces and the Terminal
- 🛠 Basics of Programming

https://www.linux.com/what-is-linux/

https://frontend.turing.edu/lessons/module-1/getting-around-in-the-terminal.html https://www.makeuseof.com/tag/a-beginners-guide-to-the-windows-command-line/ https://www.geeksforgeeks.org/basics-of-computer-programming-for-beginners/

Attend the training sessions

Lot of fun! https://www.ceci-hpc.be/training.html

Read the doc

https://support.ceci-hpc.be/doc/

Help us help you;

please spread the word

😄 We thank you in advance! 😄