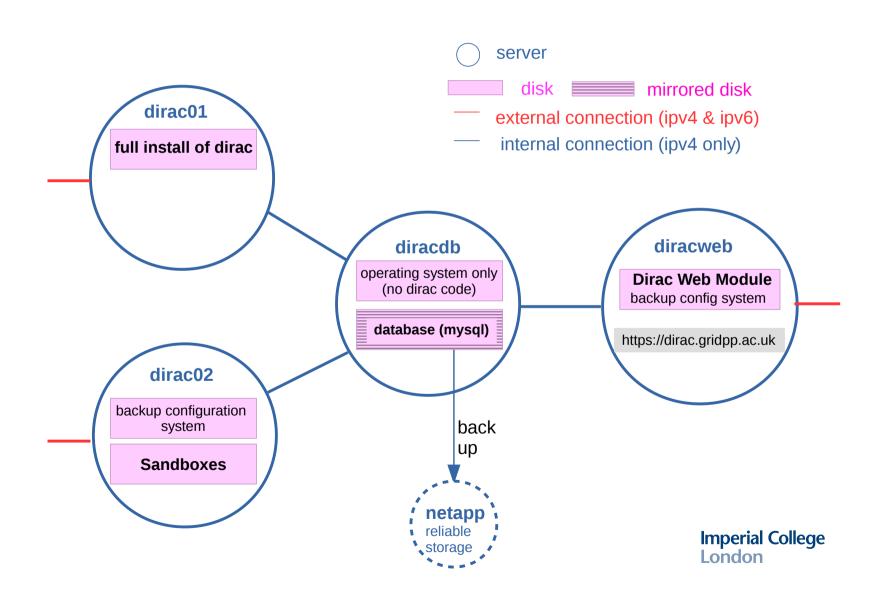
### **Dirac Status**

Daniela Bauer & Simon Fayer

## The dirac production server



# Supported VOs

cernatschool.org

comet.j-parc.jp

gridpp

Isst

Z

na62.vo.gridpp.ac.uk

pheno

snoplus.snolab.ca

t2k.org

vo.landslides.mossaic.org(\*)

vo.londongrid.ac.uk

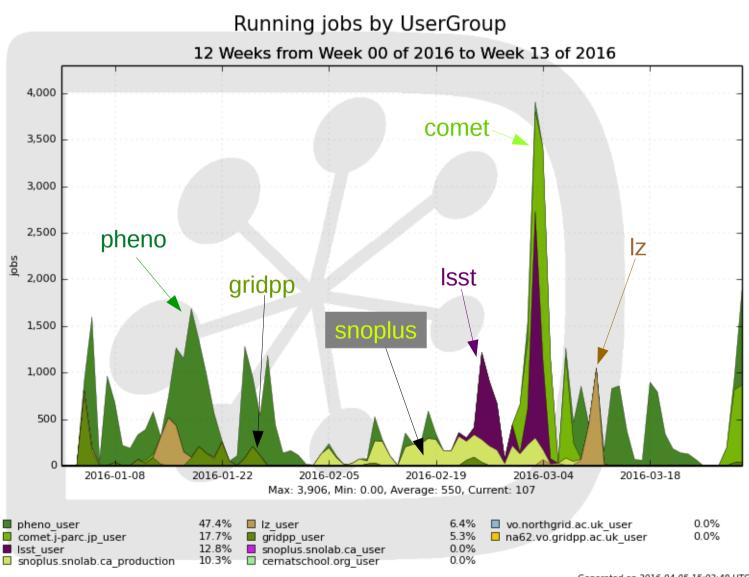
vo.northgrid.ac.uk

vo.scotgrid.ac.uk

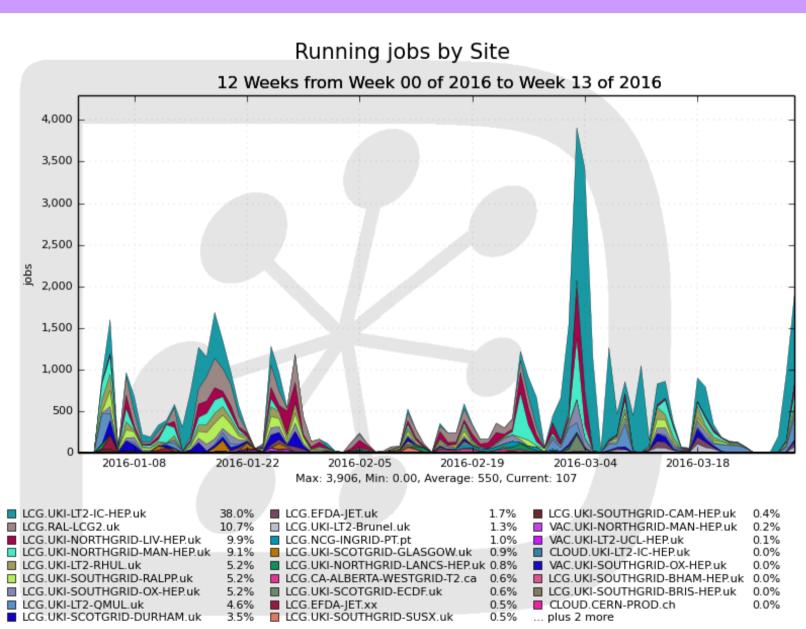
vo.southgrid.ac.uk

(\*) Membership expired. VO emails seem to be routed to one 's.metson@bris.ac.uk'

# VOs actually using dirac



# Usage by site



# Why is my site not used?

- only supports a subsection of these VOs
- no pilot roles for these VOs (\*)
- not enough batch quota for these VOs
- configuration issues: pilot jobs fail
- sites cannot be enabled on a VO by VO basis: only site currently disabled is Sheffield
- While we can do the initial commissioning of sites, we need the VOs/everyone's help to keep on top the day-to-day site health.
- Not every VO is (can be?) covered by a nagios.
- VOs need to report non-working sites instead of just blacklisting them.
- Some VOs are more amenable to this than others.

# Monitoring

- Dirac-SAM tests: https://www.gridpp.ac.uk/gridpp-dirac-sam?action=view
- local nagios (no certificate): basic ping tests and
- monitoring of site directors (responsible for pilot submission)
- SL dirac tests: http://pprc.qmul.ac.uk/~lloyd/gridpp/gridtests/uktest.html

We'd really like the equivalent the gridpp nagios for dirac, with automatic alerts, but it's not clear (yet?) how to distinguish dirac from site problems.

#### Recent issues

We report every issue at: https://groups.google.com/forum/?hl=en-GB#!forum/diracgrid-forum

- dirac not submitting jobs to empty sites, after (internally) queueing jobs at other sites: Reported to the developers, improvement promised. No timeline given.
- asynchronous data transfer (dirac-dms-replicate-and-register-request): doesn't work. Reported to the developers, but so far unresolved
- disappearing pilots: unfortunately both the grid middleware and dirac have a tendency not to log failure reasons, making debugging job failure rather tricky
- fixed: md5 signed pilot proxies

# Security considerations

#### glexec:

- made considerable improvements to the codebase to catch all the edge and not-so-edge cases, but weren't able to handle output data correctly (yet)
- no longer supported ?
- requires sites to update their configurations (which takes a long time)
- Mitigate the effects of having a single pilot cert for all VOs:
  We now have a test setup (almost) running, which will hopefully allow
  us to test having unique pilot certs for each VO.
  Note: It's not a given that this works.

# Currently testing

We now have a dirac test server, but:

- it took a surprisingly long time to reinstall dirac from scratch
- we are currently testing:
  - the new dirac web interface
  - unique pilot certificates for each VO
  - improvements to our auto config module