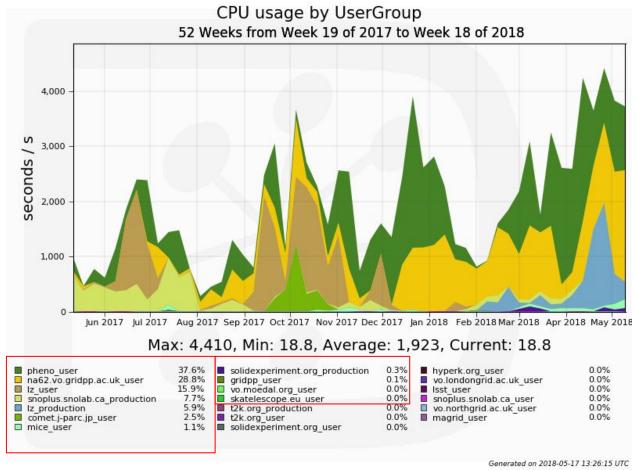
# GridPP DIRAC Status Report

Daniela Bauer & Simon Fayer



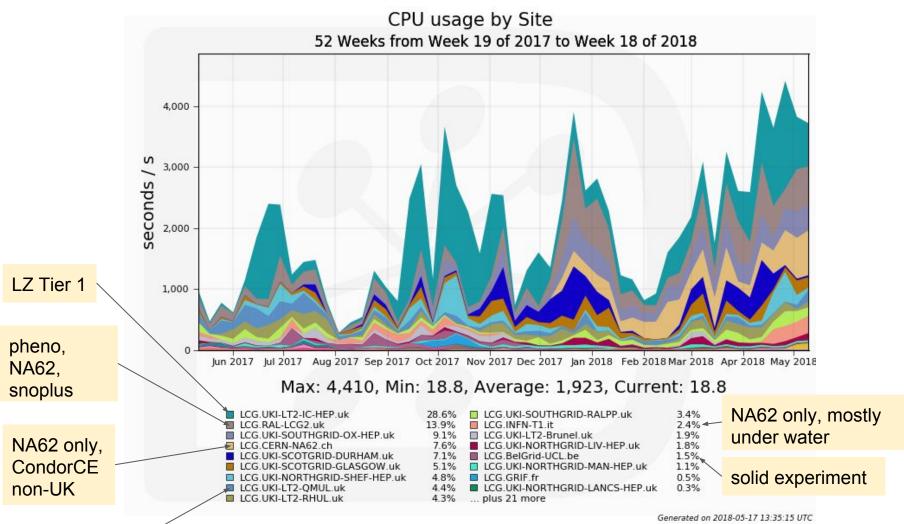
# No news is good news?

#### Wrt to last year our user base is basically unchanged:





# Where do the jobs go?



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the first GPU on the grid in the UK



# What did we do all year?

- (multiple) Tag(s):
  - Use cases:
    - Tag: "HighMem": High memory queue for LZ at RALPP, passes XRSLExtraString with 8GB memory requirement to ARCCE.
    - Tag: "gpu": GPU at QMUL, passes ExtraJDLParameter GPUNumber1
  - Now works.
- Multi-core: Just one bug fix to ensure multicore jobs don't accidentally end up in single core slots.
- Condor CE:
  - First instance of a CondorCE in GridPP DIRAC.
  - The DIRAC side of the deployment was fairly straight forward.
  - The same cannot be said about the CERN side.
  - No information about CE/queues available in either bdii or GOCDB.



### VAC/Vcycle - Rogue pilots....

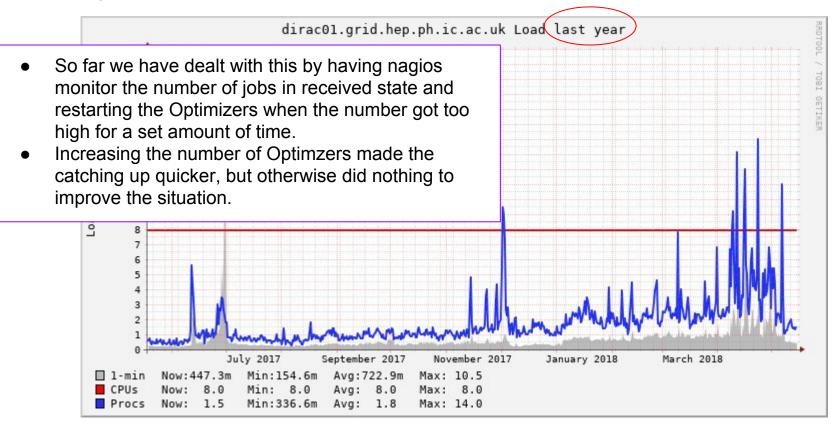
- We now have a module that can read VAC configurations from the GOCDB.
- But:
  - The environment inside the VAC VMs is (still) not identical to a standard worker node.
    - One of our main users cannot run on VAC at all.
  - We have no control over the pilot versions VAC runs.
    - Rather frustrating as we try and test our DIRAC instances fairly thoroughly before updates.
- Next step: Going back to testing mode only?



# GridPP DIRAC: invalid action proposal

(for everyone who wasn't at the last BiLD meeting)

Increased usage of the GridPP DIRAC server caused (mainly) the Optimizers to hang: manifesting itself as a persistent **high load** on the monitoring and lots of jobs in the received state. (The load itself is not the problem.)



oad average

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v6r17: 27 March 2017

v6r19: 16 Nov 2017 (non-RSS version for multi-VO DIRAC ?)



# Emergency Fix: remove default group lookup

Test example: 50 threads looking at the SiteMask from the WMSAdministrator service (similar to what the Optimizer does):

Without fix: 12m37.166s

After modifying getBaseStub: 1m4.689s

This patch breaks the forwardDISET RMS Operation: used for fail-over in some cases.

But: Our DIRAC server has been running happily ever since for the first time since upgrading to v6r19.

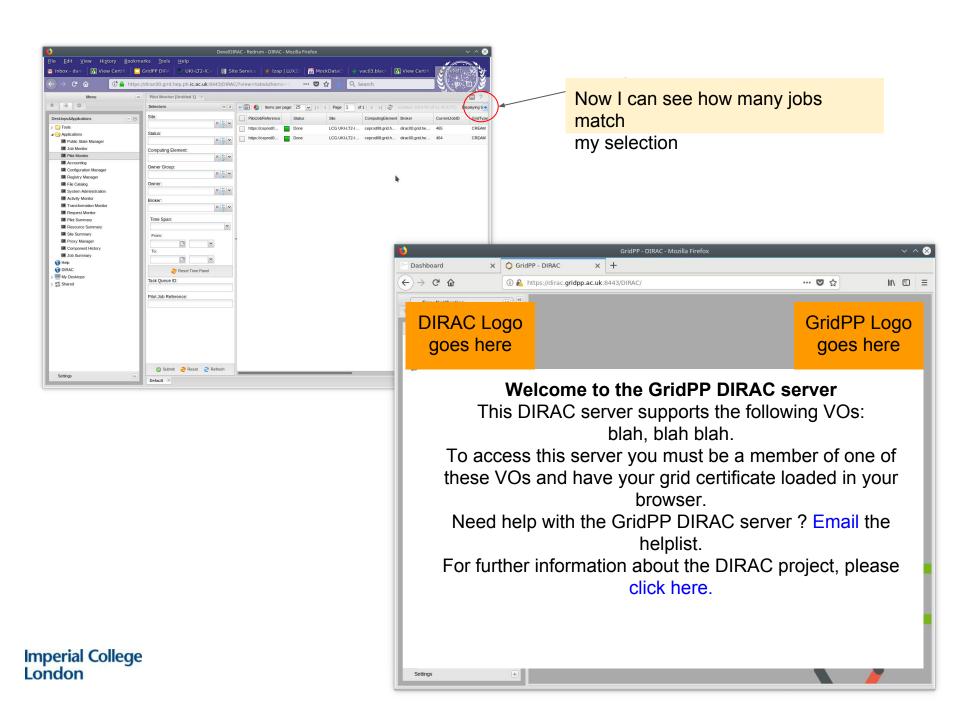
Fixing this properly is our highest priority right now.



# What do we want to learn from this workshop?

- (Hopefully by now we've achieved some of it :-)
- Transformation system:
  - We've been asked to look into it for SKA.
  - Just want to get started.
- RSS for multi VO DIRAC:
  - It would be nice to sort this once and for all.
  - User would like a way to discover sites/storage element that are enabled for their VO.
- Web improvements:
  - I don't have a wide screen monitor, I need a scroll bar.
  - Present a helpful page to users accessing my DIRAC web interface without a certificate.





#### Conclusions

• It's business as usual

