NAF Status Report

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HELMHOLTZ
| ASSOCIATION

DESY

Operational problems during last month

> Generally smooth running

> DNS generation problems

- Load balancer rewrites the DNS alias to QIP (commercial product) which then generates DNS server entries

- QIP-> DNS server failed for some aliases for unknown reason. If this occurs again, we will open a call

> ILC IN: Nodes irresponsive due to swapping induced by user activity: Informed user

> Currently: New subnet at DESY-HH for dCache pools – not all router ACLs and firewall rules know this. Should be solved in the course of the day

Urgent KDC upgrade

> Currently running rather old Heimdal 1.2.1, need to migrate to Heimdal 1.5.1 on KDC

> We have seen Mac OS X 10.7 clients making the 1.2.1 segfault. Serious stability and potential security problem.

> New Heimdal Clients (>1.4, e.g. Ubuntu 11.04) not compatible with 1.2.1 Server when using PKINIT Authentication as in the NAF

> Upgrade should be transparent to users

  ▪ Have not seen any client not able to connect to Heimdal 1.5.1 KDC in tests

  ▪ Potentially enable naf_token also for newer OS with Heimdal >1.4

DESY

Issues migrating to HEPPI

> The DESY network setup was found to not work with the HEPPI/ LHCONE network setup

> Became obvious when CERN moved to LHCONE, and users could not get a VOMS proxy from CERN on e.g. normal DESY Public Network

> Network group found a solution: Add a second router dedicated to HEPPI/LHCONE

> Installed and configured 4/5 October. Run smoothly except one packet loop between some networks in HH and ZN – fixed

> This made it possible for CERN to come back to LHCONE, and to IN2P3 to join LHCONE – and potentially others

> Now DESY is happily HEPPI ☺

Hardware status

> ## New CPUs arrived

  - ZN: Replacement for old HW, active

  - HH: 14*4*12 cores from DESY/NAF

  - HH: 14*4*12 cores from UniHH/CMS

> ## HH: Installation still ongoing

  - Will adapt new fairshare once all machines are installed

> ## Lustre@HH: Added space. Status 18.9: (tot., occ., mount)

  - 104T   48T   /scratch/hh/lustre/cms

  - 132T   97T   /scratch/hh/lustre/atlas

  - 40T   28T   /scratch/hh/lustre/ilc

> ## dCache@HH: Added space

  - ATLAS: +100 TB in LocalGroupDisk, +170 TB other ST

  - CMS: +160/2 TB for Users, +220 TB other space

Testing SL 5.7 | gLite 3.1/3.2/EMI

> tcx168 installed with SL 5.7

> What is the status with the experiments?

> First services on EMI middleware distribution are installed, more to come (starting with WMS systems)

> Some incompatibilities between gLite 3.1 UI and EMI services have been found

> We strongly recommend people to move away from gLite 3.1 UI

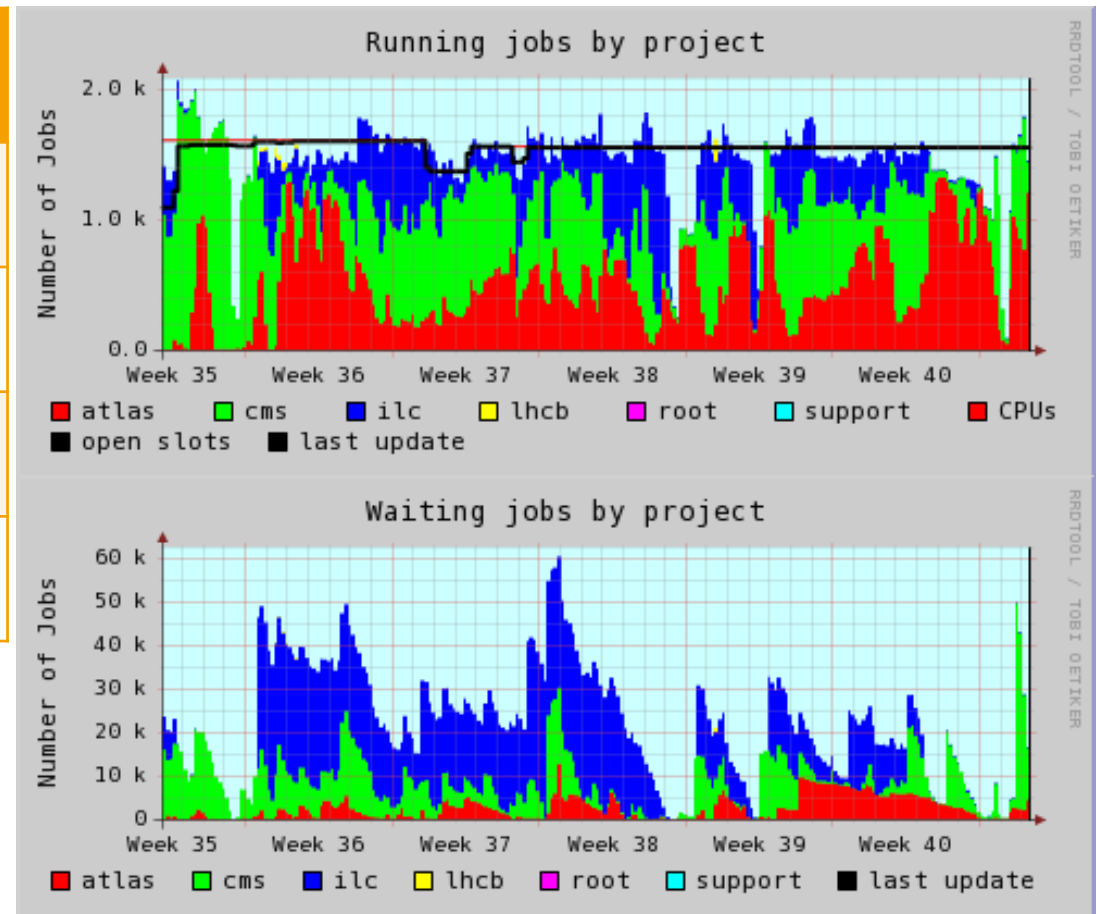> The last lcg-CE will be decommissioned in two weeks at DESY-HH. CREAM CE will stay.

IN monitoring plots

> Fetches some plots from the internal Hobbit monitoring page and puts them into a public location

> Public for everyone, regardless of VO – no plan to limit this to DNs e.g.

> http://gridcenter.desy.de/naf/atlas.html

> http://gridcenter.desy.de/naf/cms.html

> http://gridcenter.desy.de/naf/ilc.html

> http://gridcenter.desy.de/naf/lhcb.html

Queue statistics since 1.9.2011

Group / Wall-Days	Single slot	Multiple slots
atlas	21292	167
cms	23695	54
ilc	12684	0
lhcb	75	0

Naf-helpdesk@desy.de (Sep.1st-Sep.30th 2011)

14 tickets in total

Category of Requests

- afs/login
- downtime
- lustre
- configuration
- quota
- batch
- performance
- account
- others
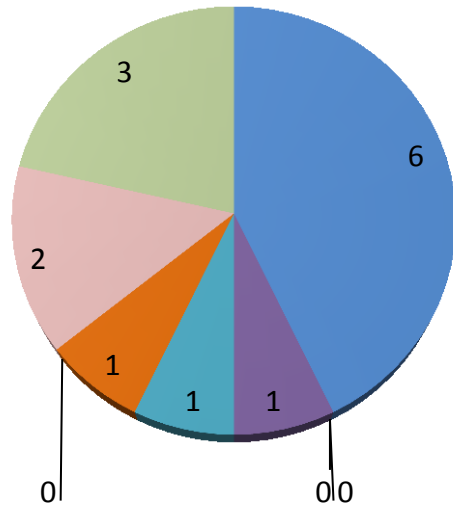
Requests by Experiment

- ATLAS
- CMS
- ILC
- LHCB
- other
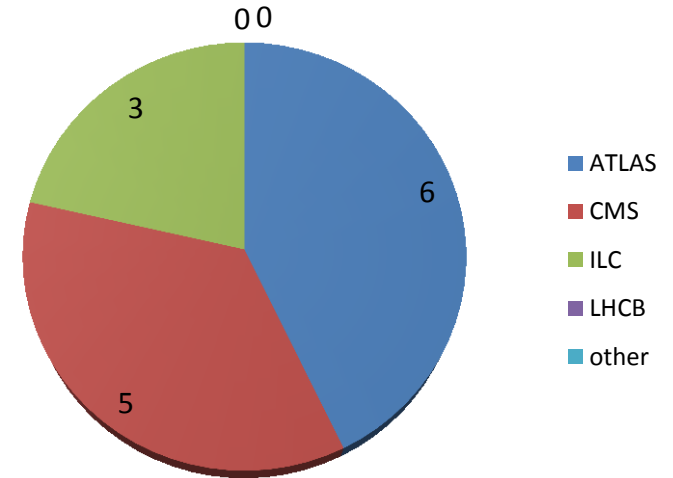
Date/Category of Requests
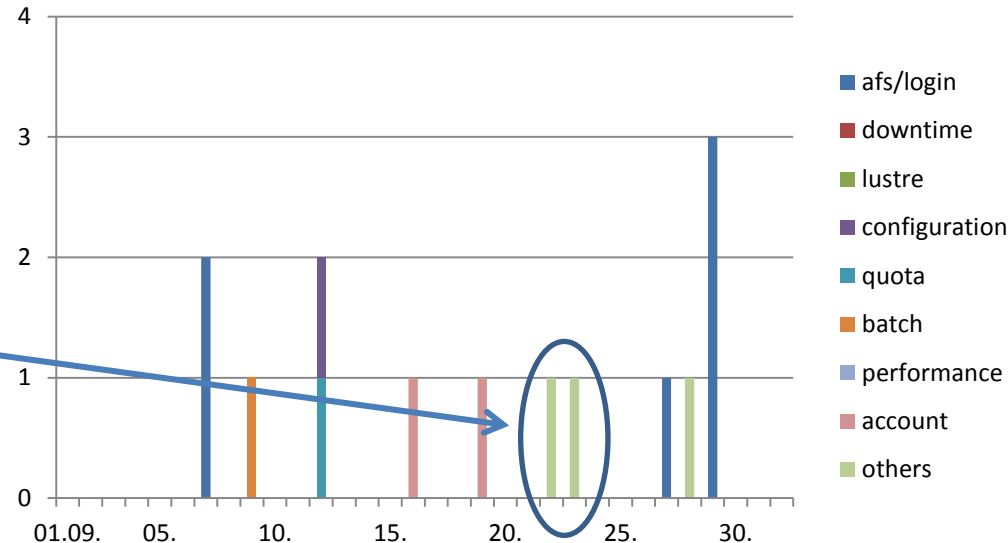
Routing problem between DESY and CERN VOMS-server

- afs/login
- downtime
- lustre
- configuration
- quota
- batch
- performance
- account
- others

Benjamin Kahle – NAF-helpdesk