Jamboree Summary

Alessandra Forti

GridPP Ops Meeting
18th December 2012

Layout

- Rucio

- Xrootd&WEBdav

- Puppet

- SL6

- DDM and space tokens

- Jobs requirements

- Cloud computing & FAX

- UK Looking good

Rucio

- DQ2 replaced by 2014

- New naming scheme

  Plain mapping LFN ↔ PFN

  LFC will be dropped

- SRM will be dropped

  Space tokens accounting and ACLs transferred at directory level

  - We need quotas

  3rd party transfers done with plain FTS and gridFTP

  - More protocols with FTS3

- Integration with DMLite

  Experiment behind DPM/DMLite

  Requires WEBDav at sites to retrieve files

Rucio renaming

- To prepare for migration to Rucio old files will be renamed

  Should be transparent to sites

  Requires a protocol that allows renaming like WEBDav

  Testing on few sites between now and April

  Bulk renaming between May and end of 2013

Xrootd&WEBDav

- ATLAS is "demanding" both protocols for LAN and WAN access by the end of April 2013

  - 85% of sites have a storage that supports them

    - "Just need to configure it"

  - Rfio will be dropped

    - (gsi)dcap most likely too

  - WEBDav required also for file renaming campaign and user access via Rucio

- FAX

  - UK has already few sites active (Gla, Ox, Ed, T1, QM)

  - Lancs, Man, Liv next year

    - SL6 DPM problem

Puppet

- The rest of the world going towards puppet

    It was mentioned in several Cloud computing talks

- Even CERN is replacing quattor with puppet

    "CERN is no longer a special case for computing"

    Github.com/cernops URL for its modules

    DPM depending on CERN

    - Also currently on github.com

- YAIM will be dropped eventually

- Sites that aren't thinking about it should

- Sysadmin.hep.ac.uk SVN vs github.com portal

    Doubts, doubtsm doubts

SL6

- SL6 in SL5 compatibility mode

  Http://twiki.cern.ch/twiki/bin/view/Atlas/RPMCompactSLC6

- Production passed physics validation

  Can run on SL6

- Analysis has compilation issues

  Only 17.2 release has been validated

- Timescale for using it is January 2013

- Sites who want to move now can do

  Just have to remove most tags for now

DDM and space tokens

- GROUPDISK ↔ DATADISK merging

    New group data written to DATADISK

    Still problems with the transition

    - accounting not always reliable

- HOTDISK is going to be drained at CVMFS sites

    UK no problem

- PRODDISK ↔ DATADISK merging

    Plan is to remove PRODDISK completely at all sites in the first quarter of next year(?)

- Remaining space tokens eventually

    DATADISK, LOCALGROUPDISK, SCRATCHDISK

    With Rucio they'll be gone too

Jobs requirements

- Memory requirements not changed

  Sites should publish vmem

  Mechanisms to limit memory (memory in schedconfig)

- Walltime/CPUtime

  Recognised VOiD card needs updating the figure

  - 1 day doesn't make sense

  Recommended 2.2 days at T2 4 days at T1s

- Local disk size

  Maxwdir default=maxinputsize+2 not enough for some jobs

  If sites have more space available should set maxwdir to that

Cloud Computing & FAX

- Several cloud effort from US/Australia/CERN and others

    IAAS (Infrastructure As A Service) model

    - Provision of machines,storage, network
    - Most basic of cloud models and closest to the grid model

- Buzzwords in the talks

    puppet, Openstack, KVM (mostly)

- FAX is closely related

    Will allow more dynamic usage of CPUs

- Both were defined as a sort of mandatory future in the closing remarks

    Some doubts about FAX especially in places like the UK were the funding depends on performance

UK looking good

- CVMFS required by April 2013

  UK done by January 2012

- PerfSonar required at all sites

  UK done by August/September 2012

- FAX

  4+1 sites already involved + 3 willing

- Cloud Computing

  GridPP/IC mentioned for work done in CMS

- EMI transition

  Almost there in particular for DPM required for Xrootd&WEBDav

  - "We only need to configure"