CVMFS Status

Tier 1 Liaison Meeting

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Tier 1 Tests & Plans

- Detailed client performance tests at PIC in summer
  - job performance scaled better than NFS
  - saw problem starting many simultaneous jobs when client and squid caches are all empty
- RAL has been testing load on the squid
  - have run through thousands of Atlas hammercloud and user analysis jobs – load on squid(s) much, much less than on NFS sw server
- Nikhef have had to change default install to comply with site requirements
  - Severe problems on clients when they interrupted the connection to the squids – about to check with latest client

Tier 1 Tests & Plans

- RAL
  - about to start doing scale tests for LHCb
  - Atlas about to run validation tests pulling quasi random files from CVMFS – should be good load test for squids – this will take place when the Atlas instance of Castor is upgraded
- CNAF are planning at least to test – primarily in response to experiments (LHCb)

Other sites

- QMUL – Using just CVMFS
- Bristol (part of Southgrid) looking at supporting Atlas jobs for first time so investigating CVMFS
- Many Atlas T3s – especially in US – using just cvmfs

Current Status of tool/Service

Until the service is fully supported at CERN (and the repository is mirrored elsewhere) it should, for Tier 1s at least, be regarded as experimental

- rpms for client 0.2.53 just released (26/11/2010)
- CERN IT & developers working on full support of service (will not be in place before late January – but no firm date)
- Security audit in progress (as offshoot of HEPiX virtualisation working group)
- RAL have just agreed to work with developers to provide a mirror for the web repository
  - once recipe is worked out this could be repeated elsewhere
  - Note this is just the web reporistory – release on to cvmfs still happens at CERN

Links & Further info

- Can contact Jakob Blomer (jakob.blomer@cern.ch) or Ian Collier (ian.collier@stfc.ac.uk) off line for configuration & other info.
- Technical paper: https://cernvm.cern.ch/project/trac/cernvm/export/1693/cvmfs-tr/cvmfstech.preview.pdf
- Jakob Bolmer's talk at CHEP: http://117.103.105.177/MaKaC/contributionDisplay.py?contribId=39&sessionId=111&confId=3
- RAL Page (under construction): https://www.gridpp.ac.uk/wiki/RAL_Tier1_CVMFS