IN2P3 Computer Center (Lyon)
Site Status Report

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Outline

- General status
- Components
  - User Interface
  - Computing Element/Worker Nodes
  - Storage Element
- Applications support
- Current/Future work

General

- EDG v1.2 installed and working in the applications testbed
- Development testbed being configured
- Full integration with the "normal" production environment
  - User interface machines are the same than non-EDG users use for interactive work
  - Worker nodes are the ones being used for normal production
- Site is currently migrating Linux services from RedHat6.2 to RedHat7.2
  - Roughly half of the worker nodes are already migrated
  - 30% of the machines for interactive use are already migrated

Component: User Interface

- **Installed on all the hosts available for interactive use**
  - RedHat6.2: 8 dual-processor PIII-1 GHz, 1GB RAM
  - RedHat7.2: 4 dual-processor PIII-1 GHz , 1GB RAM
- **Configured to use the Resource Broker (CERN) of the applications testbed**
  - configuration files for other RBs (CNAF, RAL-Babar, ...) also provided
- **Script for setting up the EDG environment provided and available with the default PATH**
  - `edg-ui-setup.[c]sh`
  - not automatically executed for every user
  - if a user wants his/her EDG environment automatically configured for each interactive session, he can use `edg-autoconfigure` once and for all

Component: Computing Element/Worker Nodes

- **EDGv1.2 gatekeeper installed on RedHat6.2**
  - jobs submitted through it will be scheduled for execution on a worker node running RedHat6.2
  - Full integration with AFS (home directories are in AFS)
    - AFS credential renewal also available for jobs (this is standard BQS)
  - A local account per VO was created for execution of EDG jobs
    - Proxy-protection mechanisms implemented
  - Mechanisms for traceability implemented in BQS
    - Who (individual) submitted this Atlas job?
- **Worker node component installed on all the hosts available for batch use**
  - RedHat6.2: ~90 dual-processor mixture of PIII-850MHz-1GHz
  - RedHat7.2: ~98 dual-processor mixture of PIII-850MHz-1GHz
- **~60 More WNs ordered**
  - expected availability: November/December 2002

Component: Storage Element

- For applications testbed, 8 GB per VO has been allocated
  - currently AFS-managed space, so accessible from every worker node and user interface node
- Integration of GDMP-HPSS in place and working
  - unfortunately, the data already in HPSS can not be easily accessed through GDMP due to some limitations of the latter
  - however, these data are directly accessible through RFIO commands (rfcp, ...) for jobs executing in the sites
- bbFTP server is also running on this machine
  - direct transfer to/from HPSS possible by using grid credentials
  - this is currently not possible with gsi-ftpd

Applications Support

- Committed to support physics experiments (Atlas, Alice, CMS, LHCb) and biomedical applications
  - ITeam and WPSix are also supported
- Alice, CMS and LHCb software is installed
- Atlas has problems with relocation of their RPMs
  - a new set of relocatable RPMs is being tested

Current/Future work

- Finish configuration of components for development testbed (CE, SE)
- Use disk storage server (IBM VSS) for Storage Element
  - tests are being performed as I'm speaking
  - benefits: more space, availability and speed
- Configure a new gatekeeper for use of RedHat7.2 worker nodes
  - expected ready by the end of this week

Additional Information

- http://ccgrid.in23.fr
- http://ccweb.in2p3.fr
- edg-site-admin@cc.in2p3.fr