Testbed Status

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Project Technical Board

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Application (Production) Testbed

Deployment

- EDG release 1.2.2 deployed on six sites.
  - CC-IN2P3, CERN, CNAF, Karlsruhe, NIKHEF, RAL.
- Around 15 others waiting to join.
  - Other grid projects (CrossGrid, GridPP, INFN Grid,…)
  - More still once some national CAs are approved.
- Start to see real computing power, storage space on testbed.

Limitations

- GASS cache problem ➔ Low-rate submissions only.
- GridFTP bug ➔ 20 minute time limit on file transfers.
- MDS ➔ Extremely unstable.

Release 1.2.2 is NOT suitable for widespread deployment.

Recent Problems

MDS Instabilities

- Top problem ➔ knock-on problems for users.
  - problems with match making
  - finding replicas
- Moved back to manual configuration of II.
  - Script used to monitor status of sites.

Logging & Bookkeeping

- Buckled under very large number of simultaneous requests.
- "Abuse" of dg-job-status –all.
- Can improve with purging database.

Testing for 1.2.x

Job Manager (GASS cache):

- Rate problem gone when using fork job manager.
- Bug found with pbs backend scripts.
  - reported to Globus and fixed
  - need to repeat testing
- Haven't confirmed or denied:
  - EDG GK works with new job manager.
  - Combination works with WP1 job submission.

MDS:

- Dynamically-linked MDS 2.2 works; gross failure modes gone.
- Statically-linked MDS is not possible because of LDAP.
- Will need to deploy parallel Globus trees to have this work.

Testing for 1.2.x (cont.)

GridFTP:

- Statically-linked server/client OK (in 1.2.3).

WP2 Software:

- Replica Manager recompiled/relinked.
- RM tested with new GridFTP servers.
- GDMP is being tested now.

Configuration:

- Details very different for job manager.
- Other minor details like updating dependencies.
- Should have updated configuration rpms shortly.

Summary

Application Testbed:

- See familiar problems with software.
- Number of users/jobs increasing ➔starting to see scalability problems.

Towards 1.2.x:

- Testing progressing (only job manager not verified).
- Configuration being updated to allow mixed release.