

FTS validation on Oracle 10gR2 release

Date: 26 May 2006. G. McCance

This test was to validate the file transfer service (FTS) software against the Oracle **10gR2** release.

Summary

No problems were observed running the FTS application against Oracle 10gR2 at 1/3 nominal production rate.

Setup

Testing FTS software version 1.5 from gLite 3.0 release.

Running test from pilot FTS servers **fts00[1-5]**. These are fairly low-spec machines – old worker-node class:

- Single FTS web-service instance.
- VO agents all on one machine.
- Channel agents balanced over three machines.

Integration cluster DB load-balanced over 2 RAC instances (**int3r1** and **int3r2**).

Already using 10gR2 Oracle Instant Client, as per production FTS system.

The production DB contents from **lcgr1** were copied over to the integration DB test account.

Job stats collection trigger enabled on validation account.

History cleanup job enabled on validation account.

Moved all dteam background transfers from production FTS to validation FTS, still running them against production SRMs.

Results

Processed >300,000 files (~1 GB each) successfully maintaining average rate of 400 – 500 MB/s out of CERN. Not all channels were set active (since we are running against the production SRMs). Fairly stable rate (within average stability).

DB query time is stable.

History cleanup job and data collection triggers running with no problem.

No DB errors in logfiles (checked FTS web-service and FTA agents).

No contention or other problems showing in DB Session Manager.

Conclusion

When using the 10gR2 InstantClient, no problems were observed running the FTS application on Oracle 10gR2. This was tested for a week at about 1/3 of the nominal production rate.

The FTS running with 10gR2 InstantClient against a 10gR1 database works fine as well (this is the current production setup).

No tests were made using the 10gR1 InstantClient.