



CCRC'08 Weekly Update

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WLCG Management Board, 15th April 2008

Agenda

- Services
- Sites
- Experiments
- Outlook
- Note: agenda of regular con-call re-jigged to cover site issues immediately after experiment ones – seems to have helped! (Plus slightly more sites now join...)

Network

- There were LCG OPN tests Wednesday 9 April from 15.00 to 19.00 CET. The plan of the test is here:
<https://twiki.cern.ch/twiki/bin/view/LHCOPN/BackupTest>
 - RAL will be unreachable for 15-20 minutes between 16:45 and 17:15
 - PIC will be unreachable for 15-20 minutes between 17:15 and 17:45
 - The goal of the maintenance was to verify that all the backup solutions worked as expected.
 - The T1s with a backup link should be up all the time, but at the moment we cannot guarantee that it will be the case and there may be outages at any time for any T1.
- ☺ **No noticeable degradation seen!**

Databases (1/3)

- The test migration to new quad-core HW has been successfully performed on all LHC offline Oracle databases concerned [previous] week. The final migrations of the LHC RAC production databases to the new HW will go ahead as planned [this] week as follows:
 - CMSR & LHCBR: Tuesday 15.04 ATLR: Wednesday 16.04
LCGR: Thursday 17.04
 - **These major migrations (which will include a move from 32 to 64bit) will be performed with a downtime of only two hours, thanks to the use of Oracle Data Guard**
 - **Come back to this migration plan in more detail later...**
- The downstream databases for ATLAS and LHCb streams setup will be migrated [this] week, Tuesday 15th April and Wednesday 16th April, to the new hardware.

Databases (2/3)

- The LFC deployment team has proposed a clean-up of the ATLAS LFC local catalog deployed on the LCG RAC, which will follow the hardware upgrade. The ATLAS local LFC will not be available for about two hours.
- A blocking issue with the monitoring of the storage arrays on RAC5 and RAC6 has been solved with the help of IT-FIO-TSI. Many thanks.
- **💣 New Infortrend storage has showed a few more problems with the controllers. So far we have found 7 controllers out of 60 new arrays (3 previous week, 4 last week) with issues that required vendor intervention.**
- CNAF finished the computer centre move last Monday, 7th April, after 2 weeks of downtime. LFC/LHCb replication was synchronized in less than 1 hour. ATLAS replication is still pending because CNAF is now migrating the production servers for ATLAS. CNAF ATLAS database is scheduled to be ready next Monday, 14th April.
- BNL completed successfully an intervention to upgrade the production servers for ATLAS from 32 to 64 bit. Even though the intervention was extended 1 day more due to some complications, there was no impact on the ATLAS replication environment.
 - Migration process was tested using test-bed at CERN!

Databases (3/3)

- 💣 **Problems with new h/w (~10% of storage controllers) – not seen during acceptance tests – are a concern**
- 👉 **Rather than postpone migration to new hardware (at CERN) until after May challenge, on-going plan is to retain old hardware as “stand by” databases to the new**
- This will allow service to be resumed in a short period of time (~1 hour?) if the problems turn out to be more serious
 - It is also a very valid use of this technology in production
 - And allows us to run the May challenge in 2008 data taking conditions..
- **In summary, the pros out-weigh the cons...**
- **First migrations have started – could re-open service on old h/w but prefer to go ahead...**
- 😊 **Such migrations / expansions typically < 1 / year**

Other Services

- Experiments have been invited to join a production scale test of the SL4 version of the WMS.
- See also the CERN IT Service Status Board – a large number of interventions are scheduled for this week!
- <http://it-support-servicestatus.web.cern.ch/it-support-servicestatus/>

Sites

Site	Day	Issue / Comment
RAL	Tue	would like information on Tier 1 resource requirements for the May CCRC from CMS and ALICE as soon as possible.
NL-T1	Tue	confirmed they expect new (2007 pledges) hardware resources to start being published during the last 2 weeks of May.
NL-T1	Wed	reported ATLAS jobs disappeared rapidly about 21.00 last night. K.Bos will follow up what happened.
GRIF	Wed	plan to install the new version of dpm which will correct ACL support for ATLAS. S. Jezequel is going to provide a script to correct the ACL of files already in the GRIF ATLAS dpm.
RAL	Fri	have upgraded all their LHC castor instances to version 1.6.
NL-T1	Fri	SARA is having problems completing their dcache upgrade and this has caused batch job failures at both SARA and NIKHEF.

Experiments

Experiment	Day	Comment
CMS	Tue	the recent SAM srm test failures due to information disappearing from the bdii has been fixed.
LHCb	Tue	Preparing for infrastructure testing to start on 18 April. The slow throughput recently seen on the CERN to CNAF traffic has been corrected (not known what happened). The LHCb LFC is now replicated to NL-T1 and PIC is scheduled to start next week. [Another "saga" nears its end...]
LHCb	Wed	for the May CCRC they are requesting a new space token (LHCBUSER) of type 'custodial online' to be deployed at CERN and the T1. They would require 3.3 TB of such space at CERN, about 3 TB at NL-T1 and less at the other T1. When asked JT said that NL-T1 should be able to provide this space provided it were within the MoU envelope of LHCb.
LHCb	Fri	Main activity next week will be movement of data in preparation for CCRC'08 phase 2. There is currently a problem with the RAL LFC.

ATLAS

- Detailed reports from ATLAS on a daily basis on plans, current activities and problems, as well as follow-up on issues carried over from previous days
- This includes both experiment and site status, including follow-up from site experts on issues seen
- Rather than attempt to summarize these, I have simply added a [pointer](#) to the notes from last week's meetings (Also to MB agenda)
- It would be interesting to get feedback from sites on the level of detail provided and whether similar information from all experiments would be useful

Outlook

- Next week's WLCG Collaboration Workshop – over 200 registered people so far – will cover both lessons learned / feedback from February as well as planning for May
- The agenda is fairly loose (and gets looser as the week progresses) – to leave plenty of time for discussion, both in the meeting room and outside
- Looking forward, we have the CCRC'08 post-mortem workshop June 12 – 13 at CERN, and (hopefully) HEP application cluster sessions at EGEE'08 in Istanbul
- ↳ **Around that time – hopefully overlapping with data taking – we will have to start thinking about 2009: middleware versions, storage-ware, resources etc and the plans for testing it!**
- ☹ **Harry will be away for much of May – this too will be a test of the system!**
- **As during March / April, we foresee continuing with the same schedule for conference calls & weekly summaries post-CCRC'08 (name?)**