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WLCG Tier1 Service Coordination Minutes - 17 November 2011

Attendance

Local: Mike Lamont (BE), Massimo (IT-DSS), Ian (CMS), Jorge (CMS), Pepe (CMS), Dirk (IT-DSS), Dawid (IT-DB), Oliver (IT-GT), Eva (IT-DB), Stefan (IT-ES), Jamie (IT-ES), MariaG (IT-ES), AndreaS (IT-ES), Alessandro (IT-ES), Maarten (IT-ES), Maite (IT-PES), DavidT (IT-ES), Torre (ATLAS), Stephan (ATLAS), MariaD (IT-ES), Julia (IT-ES)

Remote: Carlos (BNL), Gonzalo (PIC), Joel (LCHb), Jhen-Wei (ASGC), Maria Francesca (NDGF), Rob (OSG), Alexander (NL-T1), Ron (NL-T1), Andrew (TRIUMF), Alessandro (CNAF), Andreas (KIT), JohnK (RAL), Burt (FNAL)

Action list review

Release update

Data Management & Other Tier1 Service Issues

Site	Status	Recent changes	Planned changes
CERN	CASTOR 2.1.11-8 for all main instances; SRM 2.10-2 (2.11 on PPS); xrootd: 2.1.11-1 FTS: 5 nodes in SLC5 3.7.0-3; 7 nodes in SLC4 3.2.1 EOS -0.1.0/xrootd-3.0.4	As announced, all instances have been upgraded (transparently) to 2.1.11-8 (including the name server machines). 2.1.11.8 contains the Tape Gateway software which will allow more stable and efficient tape handling.	We plan (next week) to start upgrading SRM to 2.1 (Public only, no LHC activity) and (again public only) to start using the Tape Gateway. CASTOR 2.12 will be released on 1st of December. The tests on the usage of Oracle 11g are continuing and a plan for the upgrade is being prepared together with the DB group.
ASGC	CASTOR 2.1.11-6 SRM 2.11-0 DPM 1.8.0-1	1-3/11: downtime for power construction in data centre: all storage affected. 7-9/11: downtime for CASTOR upgrade last week	Hardware reconfiguration to disk servers to provide full capacity to CMS
BNL	dCache 1.9.5-23 (PNFS, Postgres 9)	Upgraded to dCache 1.9.12-10 and switched from PNFS to Chimera	None
CNAF	StoRM 1.8.0 (Atlas, CMS, LHCb)	9/11: Fixed memory leak in 1.8 and upgraded ATLAS and LHCb instances to 1.8	17/11: Upgrade CMS to 1.8
FNAL	dCache 1.9.5-23 (PNFS) httpd=1.9.5.-25 Scalla xrootd 2.9.1/1.4.2-4 Oracle Lustre 1.8.3		

IN2P3	dCache 1.9.5-29 (Chimera) on core servers and pool nodes		
KIT	dCache â € atlassrm-fzk.gridka.de: 1.9.12-11 (Chimera) â € cmsrm-fzk.gridka.de: head nodes 1.9.5-26 (Chimera), pool nodes 1.9.5-6 through -25 â € gridka-dcache.fzk.de: head nodes 1.9.5-26 (PNFS), pool nodes 1.9.5-24,-25	Upgraded all nodes for atlassrm-fzk.gridka.de to 1.9.12-11 on 15th Nov 2011.	
NDGF	dCache 1.9.14 (Chimera) on core servers. Mix of 1.9.13 and 2.0.0 on pool nodes.		
NL-T1	dCache 1.9.12-10 (Chimera) (SARA), DPM 1.7.3 (NIKHEF)		
PIC	dCache 1.9.12-10 (last upgrade to patch release on 13-Sep); PNFS on Postgres 9.0		
RAL	CASTOR 2.1.10-1 2.1.10-0 (tape servers) SRM 2.10-2	None	None
TRIUMF	dCache 1.9.5-28 with Chimera namespace	None	None

Other site news

CASTOR news

CERN operations and development

EOS news

* EOS 0.1.0-43 installed on ATLAS

- - ◆ namespace boot performance boost (6 x faster)
 - ◆ small bug fixing
- EOS 0.1.1-1/xrootd-3.1.0 under test
 - ◆ GPL v3 license
 - ◆ unordered adler checksumming
 - ◆ extension of fsck tool
 - ◆ r/w lock implementation on namespace

xrootd news

dCache news

StoRM news

- StoRM v1.8.0 has been released : [Release notes](#)

FTS news

- FTS 2.2.8 now installed on the CERN pilot service. Phedex transfers are running. Atlas intend to start testing. Transfer publishing to messaging is working.
- FTS 2.2.7 cancelled, next version will be FTS 2.2.8
- FTS 2.2.6 released in EMI-1 Update 6 on Sep 1
 - ◆ restart/partial resume of failed transfers * FTS 2.2.5 in gLite Staged Rollout: http://glite.cern.ch/staged_rollout
- gfal2, one of the component libraries for FTS3, has been released for beta testing - <https://svnweb.cern.ch/trac/lcgutil/wiki/gfal2>
 - ◆ It will soon be available in the application area AFS space

DPM news

- DPM 1.8.2-3 (EMI release) certified
- DPM 1.8.2-3 (gLite release) in staged rollout
 - ◆ fast dpm-drain
 - ◆ filesystem selection algorithm configurable by admin
 - ◆ support for central banning (Argus)
 - ◆ Allow definition of the number of threads for DPM and SRM servers at startup time
 - ◆ <https://savannah.cern.ch/patch/?5005>
 - ◆ <https://savannah.cern.ch/patch/?5006>
- Monthly releases of new unstable components can be followed on the blog: <https://svnweb.cern.ch/trac/lcgdm/blog>
 - ◆ This covers NFSv4.1, WebDAV, Nagios, Catalogue synchronisation & 'perfsuite'.
 - ◆ Latest release: <https://svnweb.cern.ch/trac/lcgdm/blog/unstable-release-1111>

LFC news

- LFC 1.8.2-3 (EMI release) certified
- LFC 1.8.2-2 (gLite release) in staged rollout
 - ◆ fix for read-only replica operation (LHCb)
 - ◆ support for central banning (Argus)
 - ◆ <https://savannah.cern.ch/patch/?5003>
 - ◆ <https://savannah.cern.ch/patch/?5004>

LFC deployment

Site	Version	OS, n-bit	Backend	Upgrade plans
ASGC	1.8.0-1	SLC5 64-bit	Oracle	LFC service moved to CERN
BNL	1.8.0-1	SL5, 64-bit	Oracle	None
CERN	1.8.2-0 64-bit	SLC5	Oracle	Upgrade to SLC5 64-bit only pending for lfcshared1/2
CNAF	1.8.0-1	SL5 64-bit	Oracle	None
FNAL	N/A			Not deployed at Fermilab
IN2P3	1.8.2-0	SL5 64-bit	Oracle 11g	
KIT	1.7.4-7	SL5 64-bit	Oracle	Oracle backend migration pending
NDGF	1.7.4.7-1	Ubuntu 10.04 64-bit	MySQL	None
NL-T1	1.7.4-7	CentOS5 64-bit	Oracle	

PIC	1.7.4-7	SL5 64-bit	Oracle	
RAL	1.7.4-7	SL5 64-bit	Oracle	
TRIUMF	1.7.3-1	SL5 64-bit	MySQL	None

Experiment issues

WLCG Baseline Versions

- Release report: deployment status wiki page
- WLCG Baseline versions: table

Status of open GGUS tickets

Review of recent / open SIRs and other open service issues

Conditions data access and related services

- Work has resumed on COOL performance validation on Oracle 11g servers. Different results with a better performance have been observed on the server used for previous tests after its upgrade from 11.2.0.2 to 11.2.0.3. For comparison, tests have been repeated on another server still running 11.2.0.2, confirming the observation of worse performance than on 10g or 11.2.0.3. More tests are however needed to confirm whether 11.2.0.3 solves all problems previously reported, or whether the use of the 10g optimizer (previously planned on 11.2.0.2 servers) should still be recommended. The interpretation of results is complicated by the new 'SQL plan baseline feature' on Oracle 11g: the new tests on the 11.2.0.2 server showed that this feature can lead to worse performance and less transparency of query execution plans, so that it presently seems better to disable this feature for COOL.

Database services

- Experiment reports:
 - ◆ Status report - all integration and production DBs have been patched with CPU Oct and all 11.2.0.2 integration DBs migrated to 11.2.0.3
- Site reports:

Site	Status, recent changes, incidents, ...	Planned interventions
BNL	<p>Nov 7 2011 - Network intervention:</p> <ul style="list-style-type: none"> - Due to a site network intervention the propagation, apply process had to be stopped during this intervention. - The LFC/FTS and VOMS/Priority Stager oracle clusters moved to the new datacenter. No problems observed. <p>Preventive stop of 3D OEM conditions database oracle agents due to problems with the 3D OEM certificate.</p> <p>Nov 8 2011:</p> <ul style="list-style-type: none"> - Due to a site network intervention the propagation, apply process had to be stopped for ~ 1.5 hour during this intervention 10:00PM-11:30PM EST - Followup with ORACLE via SR 3-4849304931 the results after applying 11.2.0.3 patch in 11g test RAC. Specifically GSD resources don't start after upgrade 11.2.0.2 to 11.2.0.3 	None
CNAF		

KIT	Nov 15-17: ATLAS LFC migration to CERN (ATLAS still testing).	
IN2P3	At the end of July and the beginning of October, some databases under different releases 10.2, 11.1 and 11.2 had been impacted by physical corruptions. A SR has been opened to the Oracle and Pillar (storage unit) support. All investigations led by Oracle have concluded to a hardware problem whereas Pillar support did not diagnostic any problem. Therefore, to make safe all databases including 3D, we have moved all data to another storage unit and put out of production the PILLAR unit. An expert came from Pillar support to examine our hardware and after some testbeds, many malfunctions have been noticed. We work in close collaboration with Oracle EMEA top support management so that they provide us a solution as soon as possible.	
NDGF		
PIC	Nothing to report	Planning to install CPU October patch before the end of November, no exact dates yet.
RAL	Nothing to report	None
SARA	Nothing to report	None
TRIUMF	Nothing to report	None

AOB

-- AndreaSciaba - 16-Nov-2011

This topic: LCG > WLCGTier1ServiceCoordinationMinutes111117

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