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WLCG Tier1 Service Coordination Minutes - 5 April 2012

Attendance

Local: Massimo, Oliver, Alexandre, MariaG, Maarten, Stefan, AndreaS, Eva, IanF, MariaDZ, Ale, Stephane.

Remote: Burt, Jhen-Wei, IN2P3, RAL, Carlos (BNL), Andrew (Triumpf), Andreas (KIT), Joel, Alexei.

Action list review

Release update

Data Management & Other Tier1 Service Issues

Site	Status	Recent changes	Planned changes
CERN	CASTOR 2.1.12-4 for all instances (w/ xroot-xcastor2fs_2112-1.1.0-1); SRM-2.11 for all instances. FTS: all nodes in SLC5 3.7.7-2 EOS 0.1.2-2 (w/ xrootd-3.1) for all instances	None	None
ASGC	CASTOR 2.1.11-6 SRM 2.11-0 DPM 1.8.2-3	None	None
BNL	dCache 1.9.12.10 (Chimera, Postgres 9 w/ hot backup) http (aria2c) and xrootd/Scalla on each pool	None	None
CNAF	StoRM 1.8.1 (Atlas, CMS, LHCb)		
FNAL	dCache 1.9.5-23 (PNFS, postgres 8 with backup, distributed SRM) httpd=2.2.3 Scalla xrootd 2.9.7/3.1.0.osg Oracle Lustre 1.8.6 EOS 0.1.1-12/xrootd 3.1.0.osg with Bestman 2.0.10 FTS 3.7.7 on SL5		
IN2P3	dCache 1.9.12-16 (Chimera) on core servers and pool nodes. New hardware (more RAM, SSD disks) for Chimera and SRM servers (with SL6). Postgres 9.1		
KIT	dCache atlassrm-fzk.gridka.de: 1.9.12-11 (Chimera) cmssrm-fzk.gridka.de: 1.9.12-17 (Chimera) gridka-dcache.fzk.de: 1.9.12-17 (PNFS) xrootd (version 20100510-1509_dbg)	Upgrade of cmssrm-fzk.gridka.de and gridka-dcache.fzk.de at 15.03.2012	Build of lhcbstrm-fzk.gridka.de sometime past May.
NDGF			

	dCache 2.1 (Chimera) on core servers. Mix of 1.9.13 and 2.0.1 on pool nodes.		
NL-T1	dCache 1.9.12-10 (Chimera) (SARA), DPM 1.7.3 (NIKHEF)		
PIC	dCache 1.9.12-14; PNFS on Postgres 9.0	None	None
RAL	CASTOR 2.1.11-8 2.1.11-8 (tape servers) SRM 2.11-1	None	None
TRIUMF	dCache 1.9.5-28 with Chimera namespace	None	None

Other site news

- FNAL: testing EOS version 0.1.4-1 (they have deployed 0.1.2-2). Saw some of the load issues with FTS 2.2.8, but have not yet applied the patches.

CASTOR news

CERN operations and development

EOS news

xrootd news

- xroot v3.2.0 is available - see release notes [☞](#)

dCache news

StoRM news

FTS news

- FTS 2.2.8 EMI now running in production at: CERN on all the FTS servers (pilot, T2Export and T0Export), NDGF-T1, RAL-LCG2, Taiwan-LCG2, FZK-LCG2 (just yesterday, waiting confirmation everything is ok). Rollout to the T1s is ongoing.
- Summary of 2.2.8 rollout - <https://svnweb.cern.ch/trac/glitefts/wiki/FTS228RolloutPlanning> [☞](#)
 - ◆ Detailed FTS server deployment plan: <https://docs.google.com/spreadsheets/ccc?key=0AthhzXLQok7XdFpUeDBfLXE2S1RDZE4zcHp6QW>
 - ◆ Alessandro from CNAF requested to postpone their date for FTS upgrade towards the end of the required period 28-29.3. Ale confirmed that 4 hrs max. are enough.
 - ◆ CMS (Nicolo) said 3 GGUS tickets were opened with FTS 2.2.8 experience recently. The new functionality of 'resume' transfers requires a patch, now ready and being tested on the pilot system in order to use a less frequent check-point (now checking every second and overloading the system). The new EMI release in April will contain this patch.
- FTS 3 update by Oliver (slides on the agenda). Nxt demo on 21st March.

DPM news

- DPM 1.8.3, certification completed
 - ◆ Will be released for EMI-I on SL5
 - ◆ EPEL compatibility
 - ◆ synchronous GET for performance improvements
 - ◆ HTTP interface
 - ◆ Integration of gridPP admin toolkit

- First SL6 support expected with EMI-II (May 2012)
- DPM 1.8.2-3 (EMI release) in production
- DPM 1.8.2-3 (gLite release) in production
 - ◆ 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>
- Periodic 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) in production
- LFC 1.8.2-2 (gLite release) in production
 - ◆ 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
BNL	1.8.0-1	SL5, 64-bit	Oracle	None
CERN	1.8.2-0	SLC5 64-bit	Oracle	all servers are SLC5 64-bit virtual machines
CNAF	1.8.0-1	SL5 64-bit	Oracle	24/4: upgrade to 1.8.2-2
IN2P3	1.8.2-2	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	1.8.2-2	SL5 64-bit	Oracle	
RAL	1.8.2-2	SL5 64-bit	Oracle	None
TRIUMF	1.7.3-1	SL5 64-bit	MySQL	None

Experiment issues

- Joel (LHCb) requests that deployment of new major versions of LFC is followed by this meeting, as there are still sites with very old versions.

WLCG Baseline Versions

- WLCG Baseline versions: table
- Recent updates:
 - ◆ CASTOR: bug fix release.
- WLCG Baseline versions: table
 - ◆ CernVM-FS: revised RPMs; fixed presentation bug in `cvmfs_config chksetup`. The default maximum number of open files has been increased from 32k to 64k.
 - ◆ StoRM: fixed some bugs in BE and FE; fixed bugs in YAIM related to publication of GLUE information.

- ◆ VOBOX: complete overhaul of the proxy renewal facility that fixes several bugs and adds new features.

Status of open GGUS tickets

No issues this time.

Review of recent / open SIRs and other open service issues

- 2012-03-20 GGUS unreachable from several sites:
<https://twiki.cern.ch/twiki/bin/view/LCG/VoUserSupport#SIRGGUSunreachable20120320>

Conditions data access and related services

Database services

- Experiment reports:
 - ◆ ALICE: ntr
 - ◆ ATLAS: Increased the number of sessions for ATLAS LFC.
 - ◆ CMS: ntr
 - ◆ LHCb: ntr
- Site reports:

Site	Status, recent changes, incidents, ...	Planned interventions
BNL	Interesting tests on SDU negotiation between client and server (see details bellow). CMS conditions database replication to BNL via Active Dataguard is being investigated.	
CNAF	ntr	
KIT	11g migration of all 3 RACs finished (FTS/LFC in March, LHCb 3D/LFC in Feb, ATLAS 3D in Jan)	Compatible parameter change to 11.2.0.3.0 being scheduled
IN2P3		
PIC	ntr	
RAL	Fixed the problem seen for FTS running on 10g: Oracle bug, Patch 9949948: PROCESS SPIN UNDER KSFDRWAT0 IF AIO-MAX-NR TOO LOW	
SARA		
TRIUMF	ntr	

- From Carlos (BNL):
 - ◆ Via different functional tests between client and a test database server it was observed that the Session Data Unit (SDU) negotiation between client and database server could not be greater 8*1024 SDU size in 11G (11.2.0.3) if the DEFAULT_SDU_SIZE parameter in the sqlnet.ora is set in the GRID_HOME as stated in different oracle documentation for this database release.
 - ◆ After following up this with Oracle Support SR(3-5430820151) and providing different tests scenarios, oracle support acknowledged that the information presented is not accurate and this parameter should be set via sqlnet.ora file in the database DB_HOME, oracle support based this advise on oracle's internal documentation.
 - ◆ After changing the location of the sqlnet.ora file as advised and doing some functional tests the negotiation between client database and server database for this SDU parameter it was observed values greater than 8*1024 up to 32*1024.

AOB

-- AndreaSciaba - 04-Apr-2012

This topic: LCG > WLCGTier1ServiceCoordinationMinutes120405

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