



ALICE WLCG operations report

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WLCG Collaboration workshop
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v1.1





SL6 migration

- Driven by WLCG Ops Coordination SL6 TF
 - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsCoordination>
 - <https://twiki.cern.ch/twiki/bin/view/LCG/SL6Migration>
- Stats as of Nov 7:
 - CERN: 30% done
 - ALICE T1: 9/10 done
 - ALICE T2: 32/40 done
- Remaining MoU sites have been ticketed
 - Further progress foreseen still this year
- T3 sites to be followed up



SLC6 at CERN

- Lower efficiencies and higher failure rates
 - <http://alimonitor.cern.ch?1070>
- All SLC6 hosts are VMs
 - Some are in the Wigner CC
 - All EOS data currently only in the CERN CC
- SLC5 references for comparison
 - 1 VOBOX (CERN-CREAM) switched to CVMFS
 - 1 VOBOX (CERN-L) kept on Torrent
- To be continued...

CVMFS deployment (1/2)



- Originally driven by an Ops Coordination TF
 - <https://twiki.cern.ch/twiki/bin/view/LCG/CvmfsDeployment>
- Then a high priority exercise in ALICE Ops
 - Including sites that did not sign the WLCG MoU
- Stats as of Nov 6
 - CVMFS used at 50 sites, including most big sites
 - http://alimonitor.cern.ch/stats?page=services_status
 - About 30 sites in various stages of preparation
 - **New deadline end of 2013 !**
 - Also used on the CAF nodes

CVMFS deployment (2/2)



- New failure modes
 - “I/O error”, Squid config issues, ...
 - No big impact on operations so far



WLCG VOBOX

- Please upgrade your gLite 3.2 VOBOX (if any) to a WLCG VOBOX
 - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGvoboxDeployment>
 - Plus CVMFS, of course
- Please allow inbound connectivity to port 1975 (gssissh) from CERN networks
 - IPv4
 - 128.142/16
 - 137.138/16
 - 188.184/15 ← sic
 - IPv6
 - 2001:1458::/32
 - FD01:1458::/32



EMI-2 and -3

- The EMI project has ended → less effort to support its middleware
- The WLCG baseline is still EMI-2/UMD-2 for many EMI products
 - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGBaselineVersions>
 - As of Nov only security updates, until May 2014
- EMI-3/UMD-3 can be tried for any product
 - For some products already needed

SHA-2



- Grid certificate signatures have been based on the SHA-1 algorithm for the last many years
- CAs want to move to SHA-2 instead
 - Possible introduction of SHA-2 certs as of Dec 1
 - CERN CA will switch when WLCG is ready, probably early 2014
 - <https://twiki.cern.ch/twiki/bin/view/LCG/RFCproxySHA2support>
- CREAM: v1.14.4 or higher
- WLCG VOBOX: OK
- XRootD: OK
- Central services: OK

gLExec



- gLExec is a utility allowing user separation in multi-user pilot jobs
 - Let each user task run under a corresponding account
- WLCG sites must implement support for gLExec
 - ALICE jobs cannot use it yet, but adaptation is planned
- The site setup is tested through SAM
- Details:
 - <https://twiki.cern.ch/twiki/bin/view/LCG/GlexecDeployment>



SAM tests

- As of Jan 2014 the WLCG availability and reliability reports will no longer be based on the tests by the Ops VO
- The experiment tests will be used instead
- **Admins please ensure your site looks OK in the ALICE tests**
 - <http://dashb-alice-sum.cern.ch/>
- XRRootD and VOBOX tests to be added
 - Based on corresponding MonALISA tests

Sites usually OK - thanks!

However...



- VOBOX issues
 - CE not ready for jobs, wrong proxy being used, MyProxy running out, ...
- Files unavailable due to SE problem
 - Admins please check MonALISA pages and subscribe to notifications
- Absence of “system” library on WN
 - HEP_OSlibs rpm was created to avoid that



User support issues

- “Cannot get token!”
 - Various causes
- Mistakes in JDL
 - Wrong output path, SW version, TTL, ...
- Segfaults / **memory leaks** not seen locally
- Problem with installing AliEn
- CAF issues
 - Job or session stuck due to bad worker
 - Corrupted data files