



# WLCG operations report

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ALICE Offline week  
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v1.2





# SL6 migration (1/2)

- 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 Oct 24:
  - CERN: 22% done
  - ALICE T1: 7/10 done
  - ALICE T2: 29/40 done
- Remaining MoU sites have been ticketed
  - Some/most intend to migrate still this year
- T3 sites?

# SL6 migration (2/2)



- CERN SLC6
  - 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
  - Compare with SLC5 references
    - 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 Miguel got things really started! 😊
  - 800+ emails to site admins since Sep 23!
- Stats as of Nov 6
  - CVMFS used at 50 sites, including most big sites
    - [http://alimonitor.cern.ch/stats?page=services\\_status](http://alimonitor.cern.ch/stats?page=services_status)
  - About 30 sites in various stages of preparation
    - **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
- PackMan daemon no longer needed!
  - To be stopped on CVMFS VOBOXes
    - Not urgent



# 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 (see next page)

# 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/>
- XRootD and VOBOX tests to be added
  - Based on corresponding MonALISA tests

# Usual support issues (1/2)



- VOBOX issues
  - CE not ready for jobs, wrong proxy being used, host DN changed, ...
- Cannot get token!
- Files unavailable due to SE issues
  - Admins please check MonALISA pages and subscribe to notifications
- Absence of “system” library on WN
  - HEP\_OSlibs rpm was created to avoid that

## Usual support issues (2/2)



- User mistakes in JDL
  - Bad output declaration, 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
- ...