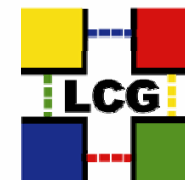


LCG: the LHC Computing Grid project

Middleware update

Andreas
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Rollback



Updated release scripts for rollback should be available this week. Some internal testing is then being done. If all goes well we start again to release in the second half of February.

- Initially rollback will be per complete release.
- More, smaller releases affecting only a few node types resp. aspects of the middleware (e.g. VDT)
- Rollback per patch will come later.

Managed rollout/early life support: SA1 is looking for sites that do ELS. Sites available so far

- GUP-CERTIF-TB lcg-CE, glite-BDII (site)
- SiNET lcg-CE, glite-BDII (site)
- RAL glite-BDII (top)
- WCSS lcg-CE, glite-SE_dpm_mysql

SL5/x86_64 WN pilot is over. No major problems found by the experiments

- WN pilot page:
<https://twiki.cern.ch/twiki/bin/view/LCG/PpsPilotSLC5>
- Known problem: Savannah bug
<https://savannah.cern.ch/bugs/index.php?45852>
 - PYTHONPATH contains 32bit libs - does not work for "native" 64bit Python.
 - Most likely not a problem for the experiments as they come with their own python and libs.
 - Workaround available - to be published in the initial release notes if the fix does not arrive in time.
- Preparing the release now, we would like to do it with the new release scripts.

Multiple WN version



Possibility to have multiple versions of the WN installed on one base WN.

- Installation through an rpm.
- VO managers publish tags about the installed WN versions.
- WN version can be selected (and matched) via JDL attributes.
- Should work for submission through the WMS as well as through direct submission to CREAM.
- Rpms are ready; mechanism is currently being tested by a SA3 partner.
- Twiki:
<https://twiki.cern.ch/twiki/bin/view/EGEE/WNVersionRPM>

- Dedicated CREAM release in Jan 09 for patch 2415
<https://savannah.cern.ch/patch/index.php?2415>
 - Fixes ~30 bugs.
- CREAM patch 2669 ("Patch for short term proxy renewal solution in CREAM based CE & other bug fixes") in certification
<https://savannah.cern.ch/patch/index.php?2669>
 - Has been given for certification to SA3 partner GRNET in Dec. 2008, they started to work on it on 16th Jan. 2009.
 - Some potential problems are still being investigated by GRNET (look into the patch comments)
- Patch 2665 ("Second update of CREAM and CEMon Clients for slc4/i386 platform")
 - "Ready for certification"; assigned to GRNET.

SA3 Patch and task watch



We have a complete overview of our current SA3 tasks (many of them being patch certification) on

<http://lxbra1902.cern.ch/gLite/Savannah/web/TaskTracker/>

Patch Watch (jra1mdw)

Immediate

High

Normal

Low

Onhold

closed

PATCHWATCH LEGEND:
The mouseover on a patch shows the state and the summary of that patch.

- Patch modified recently 0-6 days
- Patch modified between 7-14 days ago
- Patch modified over 15 days ago
- Patch in state(s): In PreProduction, In PPS deployment test

SA3 TASK TREE

Expand All Collapse All

Show closed tasks.

- #7773: [LB] writing tests - system functionality tests, 10 days behind
- #7774: [LB] standards, 41 days behind
- #7859: Test new yaim cluster configuration, 71 days behind
- #7860: Testing guide and scripts for SLCS, 62 days behind
- #7934: Testing of the hydra service, 10 days left
- #8308: Repair on PBS/Torque vulnerabilities, 101 days behind
- #8270: SGE CREAM-CE implementation, 49 days left
- #8271: SGE MPI jobs support, 20 days left
- #8275: Produce C++ SAGA Service Discovery API as defined by OGF, 10 days behind
- #8276: Produce Python SAGA Service Discovery API as defined by OGF, 49 days left
- #8277: Produce BDII plugin in C++ (Python is covered by C++) for SAGA Service Discovery, 10 days behind
- #8278: Produce Java SAGA Service Discovery API as defined by OGF, 18 days left
- #8279: Produce BDII plugin in Java for SAGA Service Discovery, 49 days left
- #8282: Define an extended (or new) API specification, 110 days left
- #8284: Provide packaged implementations with tests of the API and CLI, 202 days left
- #8285: Test SD API, 324 days left
- #8289: Test to production readiness the SD API and CLI, 324 days left
- #8301: regression tests for the CREAM CE, 54 days behind
- #8302: benchmark tests for the CREAM CE, 41 days behind
- #8306: Test the DPM DICOM, 3 days behind
- #8378: patch 2563: R3.1/386/SLC4: DPM/LFC v1.7.0, 67 days behind
- #8430: Nagios test integration, 53 days behind
- #8465: bug #40763: [yaim-creamce] Implement config_info_service_creamce, 11 days behind
- #8466: bug #40573: [yaim-lb] config_info_service_lb should be included, 72 days behind
- #8490: Operate pre-certification testbed for WMS and CREAM, 36 days left
- #8491: operate a CREAM CE Isf for the certification testbed , 36 days left
- #8492: [LB] test plan, second version, 54 days behind
- #8493: analysis and troubleshooting of problems arising on WMS, 36 days left
- #8494: Support for batch system integration with BLAH, 36 days left

SCAS patch history from last GDB



Patch #2719 rejected on the 22nd of January for configuration problems (lcas files were not installed)

Patch #2759 rejected on the 30th of January for updates to the SCAS yaim module.

Patch #2767 in certification from the 30th of January. The system is under stress tests and failure tests will be done in the next few days. The fix to the memory leak causes a periodic error (0.03% of the requests).

Glexec patch history from last GDB



Patch #2381 rejected the 2nd of February for important updates to the glexec yaim module

Patch #2770 in certification since 3rd of February. The major issue is about the error codes and messages returned by glexec that does not allow to distinguish between configuration problems, SCAS server not reachable and SCAS server returning negative authorization decision. A discussion involving LHCb and ATLAS is ongoing to fix the most critical scenarios in 2 weeks time.

SCAS/glexec certification



A pilot to test glexec/SCAS in a production like environment has been started last week

<https://twiki.cern.ch/twiki/bin/view/LCG/PpsPilotSCAS>

Issues that might have an impact:

- Current main SCAS (and glexec, as one person left and a new came) developer announced to be on holidays for 4 weeks from 20th March onwards.

Stress test results



Done by Gianni Pucciani and Andrey Kiryanov.

The test lasted almost 3 days (67 hours), from Fri Feb 6 12:47:14 to Mon Feb 9 08:00:00. It was executed using 2 WNs and one SCAS server all deployed on VMs.

Installed patches: #2767 (SCAS), #2770 (glexec), #2635 (lcas/lcmaps)

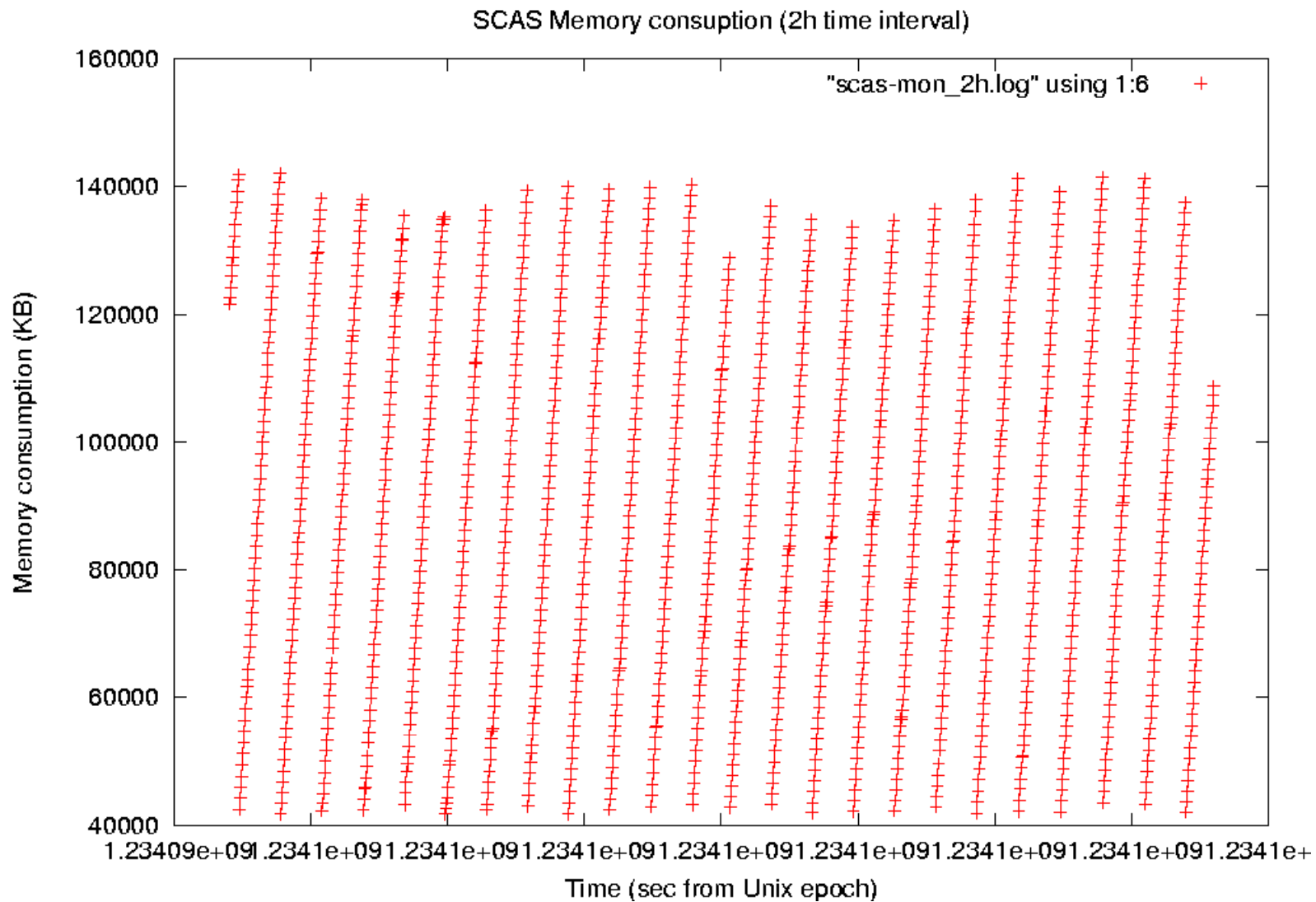
Throughput and error rate:

- Requests per second: 10.23
- Error rate: .03664%

More information:

<https://twiki.cern.ch/twiki/bin/view/EGEE/SCAS测试结果>

Stress test results



Stress test results

