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# PATCH 3179

## Automatic tests

- report #1:
  - ◆ CREAM UI version: 1.12.1; CREAM testsuite version: 1.0.7
  - ◆ Used event query for monitoring and BUdater/BNotifier for status change detection
  - ◆ Batch system: LSF
  - ◆ All the tests complete successfully, view the reports
- report #2
  - ◆ CREAM UI version: 1.11.1; CREAM testsuite version: 1.0.6
  - ◆ used direct polling for monitoring and BLParser for status change detection
  - ◆ Batch system: TORQUE
  - ◆ All the tests complete successfully, view the reports

Since the current version of the CREAM CE does not enable CEMonitor for a standard installation, all the tests that make use of the notification mechanism have not been taken into account

## Test submission through a WMS (i.e. ICE)

Description:

- 2880 collections each of 25 jobs
- One collection every 60 seconds
- Four users
- We use these CEs located at Padua:
  - ◆ 6 CEs SL5/64b with cream version 1.12 (2 lsf + 4 torque)
  - ◆ 4 CEs SL4 with cream version 1.11 (2 lsf + 2 torque)
  - ◆ 11 CEs SL4 with cream version 1.12 (5 lsf + 6 torque)
- Use automatic-delegation
- The job is a "sleep random(7200)"
- Resubmission is enabled
- Use proxy renewal service (myproxy.cern.ch)
- Lease mechanism is not used

## Results

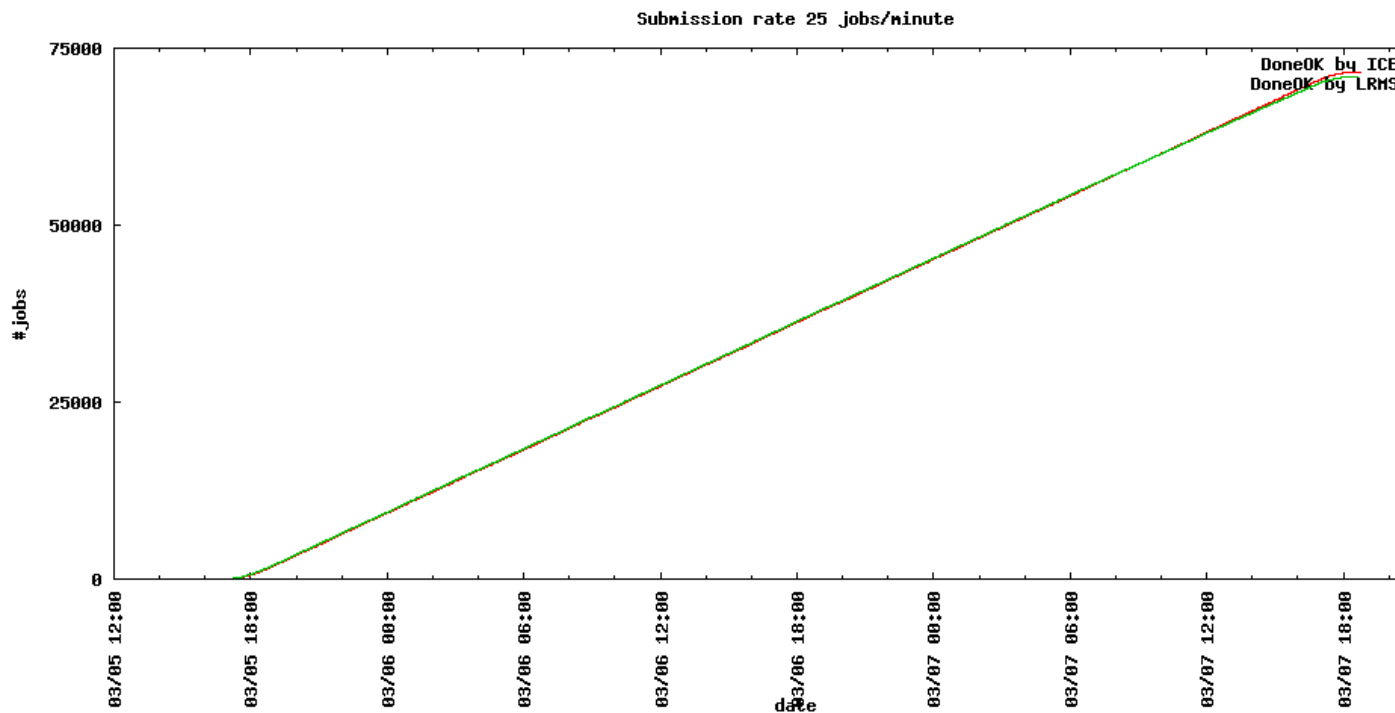
- Collections correctly submitted: 2868 (71700 jobs)
  - ◆ DONE OK: 71663 (99.95%)
  - ◆ NOTDONE: 0 (0 %)
  - ◆ ABORTED: 0 (0 %)
  - ◆ CANCELLED: 37 (0.05 %) (Stucked in torque queues)
  - ◆ Resubmitted: 82 (0.11 %)

- The 82 jobs have been resubmit due to an error like this one:

```
Cannot move OSB (${globus_transfer_cmd} file:///tmp/CREAM954728532/env.err gsiftftp://devel11
/P4/https_3a_2f_2fdevel15.cnaf.infn.it_3a9000_2fP4KWHXbaYyEAYmru3kNugA/output/env.err): pr
edg_wll_LogEvent*(): LB server (bkserver,lbproxy) store protocol error (edg_wll_LogEvent()
ERROR: LB server (bkserver,lbproxy) store protocol error;; edg_wll_DoLogEvent(): edg_wll_
Error: GSS failure ocured: GSS Major Status: General failure (GSS Minor Status Error Cha
Error with GSI credential globus_gsi_gssapi: Error with gss credential handle globus_crede
/home_cre34_954728532/cre34_954728532.proxy with subject: /C=IT/O=INFN/OU=Personal C
/CN=proxy/CN=proxy/CN=limited proxy expired 42 minutes ago. ) Cannot move OSB (${g
```

gsiftp://devel18.cnaf.infn.it:2811/var/glite/SandboxDir/P4/https\_3a\_2f\_2fdevel15.cnaf.infn.it expired

All the errors occur in the old CEs (i.e. version 1.11).



## Checked bugs

- Bug #37430 : BLParser should properly filter it's log output FIXED
  - ◆ Not too clear what the fix is supposed to be
  - ◆ According to the developer (M. Mezzadri) the command received by the old blparser from CREAM should be reported in the blparser log file without an extra new-line
  - ◆ Verified in the old blparser log file
- Bug #45364 : BLAH\_JOB\_CANCEL should report failure reason FIXED
  - ◆ submit a job top CREAM and then cancels it using the LRMS command (e.g. qdel). Before the blparser (and therefore CREAM) realizes that the job was cancelled, issue a glite-ce-job-cancel.
  - ◆ Issue a glite-ce-job-status -L 2. For the cancel command a failure (along with its reason) should be reported such as:

```

*** Command Name           = [JOB_CANCEL]
Command Category          = [JOB_MANAGEMENT]
Command Status            = [ERROR]
Command Fail Reason       = [qdel: Unknown Job Id 45299.cream-38.pd.infn.it]
Creation Time              = [Fri 26 Feb 2010 18:43:27] (1267206207)
Start Scheduling Time     = [Fri 26 Feb 2010 18:43:27] (1267206207)
Start Processing Time     = [Fri 26 Feb 2010 18:43:27] (1267206207)
Execution Completed Time  = [Fri 26 Feb 2010 18:43:30] (1267206210)
    
```

- Bug #46419 : CREAM sandbox area should be scratched when the CREAM DB is scratched FIXED
  - ◆ Submit at least one job to the CE and wait for its termination, so that the sandbox area is not empty
  - ◆ Increment the value of the parameters creamdb\_database\_version in the file /opt/glite/etc/glite-ce-cream/cream-config.xml.template

- ◆ reconfigure the node with yaim and check whether the sandbox area is empty
- Bug #47070 : [ yaim-cream ] yaim cream module should support remote mysql setup HOPEFULLY FIXED
- Bug #47254 : Possible problems if the proxy used to talk with CREAM is shorter than 10 minutes FIXED
  - ◆ create a voms-proxy whose lifetime is shorter than 10 minutes
  - ◆ submit a simple job whose lifetime is shorter than the voms-proxy one and verify its correct termination
- Bug #47804 : Possible problems configuring blah in CREAM-CE for LSF FIXED
  - ◆ copy the file profile.lsf from the LSF configuration directory into a new destination, for example /tmp
  - ◆ define in the site-info.def the variable LSFPROFILE\_DIR=/tmp and reconfigure with yaim
  - ◆ verify that in the file /opt/glite/etc/blah.conf the profile is loaded from the new path
- Bug #48786 : Load should be one of the parameter of DISABLE\_SUBMISSION\_POLICY in CREAM FIXED
  - ◆ specify a low load level in the file /opt/glite/bin/glite\_cream\_load\_monitor
  - ◆ try to overload the node with the testsuite: cream-test-monitored-submit -r 30 -n 20000 -m 2000 -C 50 -l log4py.conf -j test.jdl -R <ceID> --sotimeout 60 --vo dteam --valid 02:00 and verify that with high load the submissions are rejected
- Bug #49497 : user proxies on CREAM do not get cleaned up FIXED
  - ◆ delegate a proxy whose lifetime is shorter than the parameter delegation\_purge\_rate of the CREAM configuration file
  - ◆ wait for the new proxy cleanup run (at least twice the delegation\_purge\_rate) and verify that the proxy file has been removed from the directory
- Bug #50226 : yaim-cream-ce should use config\_secure\_tomcat FIXED
  - ◆ install the CE node from scratch
  - ◆ verify the state of the trustmanager accessing the URL: <https://ce-host:8443/ce-cream/services>
- Bug #50723 : CREAM: check for the jobtype is not case insensitive FIXED
  - ◆ submit a job specifying the parameter "jobtype=Normal" in the JDL and verify the correct execution of the job
- Bug #50875 : CREAM: reason for cancelled jobs should be reported FIXED
  - ◆ submit and cancel a job using the CREAM CLI command and verify that the reason reports "Cancelled by user"
  - ◆ submit and cancel a job using the LRMS command (e.g. qdel) and verify that the reason reports "Cancelled by CE admin"
- Bug #50876 : CREAM reports that the proxy expired even when the problem is in detecting the lifetime of the proxy FIXED
  - ◆ force a failure for the command grid-proxy-init in the jobwrapper, for example delegating a proxy on the CE, manually renaming the corresponding delegated proxy in the sandbox area and then submitting a job using the given delegation ID.
  - ◆ verify that the failure reason reported by the job status contains the message: Problem to detect the lifetime of the proxy
- Bug #51046 : CREAM: DelegProxyInfo info sometimes is wrong FIXED
  - ◆ submit a job, wait for its termination and verify the correct lifetime of the proxy in the

glite-ce-job-status output

- Bug #51118 : config\_cream\_glexec doesn't set glexec permissions right FIXED
  - ◆ install a CE node from scratch and verify the permissions for /opt/glite/sbin/glexec (6555) and /opt/glite/etc/glexec.conf (640)
- Bug #51124 : catalina.out is clogged with grid-proxy-init warnings FIXED
  - ◆ submit a job and check the catalina.out file
- Bug #51128 : lcas-suexec.db on CREAM CE should be named lcas-glexec.db for consistency FIXED
  - ◆ install a CE node from scratch
  - ◆ verify the existence of the files: /opt/glite/etc/lcas/lcas-glexec.db and /opt/glite/etc/lcmaps/lcmaps-glexec.db
- Bug #51249 : [ yaim-cream-ce ] refactor config\_cream\_db FIXED
  - ◆ Install the node from scratch and verify all the basic operations of the CREAM service
- Bug #51310 : Wrong event timestamp FIXED
  - ◆ run the consumer server (glite-ce-monitor-consumer) on the client machine
  - ◆ create a subscription for the topic CREAM\_JOBS on the CE specifying the URL of the consumer server above
  - ◆ submit a job and verify the validity of the field TIMESTAMP of any event
- Bug #51311 : Wrong event timestamp generated by the CREAM Job Sensor FIXED
  - ◆ act as for bug #51310
- Bug #51313 : CEMon must not notify the expired events CANNOT REPRODUCE
- Bug #51705 : glexec-wrapper.sh should be removed from CREAM RPM FIXED
  - ◆ check the content of glite-ce-cream rpm
- Bug #51706 : yaim-cream-ce: remove "lcg" prefix from JOB\_MANAGER FIXED
  - ◆ change the value of JOB\_MANAGER in the siteinfo.def e.g. from lsf to lcglsf
  - ◆ configure the node with YAIM and verify that in the resource BDII the string lsf (and not lcglsf) appears in the glueeeuniqueids
- Bug #51892 : Exception when using java.text.DateFormat.parse FIXED
  - ◆ try to overload the node with the testsuite: cream-test-monitored-submit -r 30 -n 20000 -m 2000 -C 50 -l log4py.conf -j test.jdl -R --sotimeout 60 --vo dteam --valid 02:00 and verify that with high load the submissions are rejected
  - ◆ verify the log of the CREAM service
- Bug #51928 : BLAH crashes if the cerequirements classad attribute is malformed FIXED
  - ◆ submit a job specifying a malformed cerequirements parameter
  - ◆ verify that the job is executed and the parameter is ignored
- Bug #51978 : CREAM can be slow to start FIXED
  - ◆ submit a big bunch of long-lived jobs, for example using cream-test-monitored-submit -r 30 -n 2000 -m 2000 -C 100 --sotimeout 60 -j long.jdl -R <ce\_id> where long.jdl is "[executable="/bin/sleep";arguments="3600";]"
  - ◆ when all the jobs have been submitted restart the service and verify the startup time.
  - ◆ verify in the CREAM and BLAHP logs that the jobs are checked one by one at startup, instead of polling all jobs from a given timestamp

- Bug #51993 : Proxy renewal not very efficient for multiple jobs having the same delegationid  
FIXED
  - ◆ stress the renewal mechanism with a single short delegated proxy, for example with the following test: `cream-test-monitored-submit -r 30 -n 2000 -m 2000 -C 50 --sotimeout 60 -j long.jdl -R <ce_id> --vo <vo_name> --valid <00:20>`
- Bug #52020 : [ yaim-cream-ce ] Support use of file (besides syslog) for glxec logging FIXED
  - ◆ install from scratch, submit a job and verify that the operation has been logged into the syslog.
  - ◆ define the following variables in the site-info.def:

```
GLEEXEC_CREAM_LOG_DESTINATION=file
GLEEXEC_CREAM_LOG_DIR=/tmp/tests
```
  - run yaim again, submit a new job and verify that the log is written into the specified directory.
- Bug #52050 : misleading error message "The problem seems to be related to glxec FIXED
  - ◆ The CREAM service does not make use of glxec anymore, and therefore this error message can't appear anymore
- Bug #52051 : CEMon must remove all expired subscriptions on start-up FIXED
  - ◆ create a subscription for the topic CREAM\_JOBS on the CE with a short lifetime
  - ◆ shutdown the service and wait for the expiration of the subscription
  - ◆ restart the service and verify that the subscription does not exist anymore in the directory `/opt/glite/var/cemonitor/subscription`
- Bug #52052 : Sometimes the getInfo() operation does not report the right list of topics FIXED
  - ◆ enable or disable the CE sensor removing or adding the corresponding tag in the file `/opt/glite/etc/glite-ce-monitor/cemonitor-config.xml`
  - ◆ wait for cemonitor to reload the configuration (usually 10m)
  - ◆ verify the availability of the topic using the command `glite-ce-monitor-gettopics`
- Bug #52268 : BLAH leaves files in /tmp when CErequirements is set FIXED
  - ◆ submit a job specifying a simple CE requirements (e.g. `cerequirements="other.GlueHostMainMemoryRAMSize > 2000"`)
  - ◆ verify that, after the execution of the job, in the tmp directory no files `ce-req-file-*` are left
- Bug #52651 : CREAM file descriptor overuse FIXED
  - ◆ try to overload the node with the testsuite: `cream-test-monitored-submit -r 30 -n 20000 -m 2000 -C 50 -l log4py.conf -j test.jdl -R --sotimeout 60 --vo dteam --valid 02:00` and verify that with high load the submissions are rejected
  - ◆ seek "too many open files" in the CREAM log
- Bug #52719 : Blah doesn't set the 'executable' flag if a local jobwrapper is found FIXED
  - ◆ Submitted a job to a CREAM CE
  - ◆ Checked the BLAH wrapper: the `chmod u+x` of the CREAM JobWrapper is done in all cases (even if the job is going to be run on the WN via a local jobwrapper)
- Bug #52942 : Missing description for ISB/OSB error in jobwrapper FIXED
  - ◆ submit a job with an unreachable host in the `inputsandbox` or in the `outputsandboxbasedesturi` parameter
  - ◆ verify that the output of the `glite-ce-job-status` contains the full description of the failure
- Bug #53459 : [CREAM] Provide method to improve the detection of job status changes by ICE  
FIXED

- ◆ run the "monitored" part of the testsuite , the latest version of the testsuite makes use of the "event query" mechanism for keeping track of the job status.
- Bug #53499 : CREAM job wrapper template should be put outside the jar FIXED
  - ◆ check whether the file /opt/glite/share/webapps/ce-cream.war contains the file WEB-INF/jobwrapper.tpl
- Bug #54812 : lsf\_submit.sh job requirement FIXED
  - ◆ Created (and chmoded +x) the file /opt/glite/bin/lsf\_local\_submit\_attributes.sh on the CREAM CE with the following content:

```
#!/bin/sh
echo "BSUB -n 2"
```
- - ◆ Submitted a job to that CE, without specifying in the JDL the cerequirements attribute
  - ◆ Checked (via bjobs -l) that the -n 2 directive was used (which means that the lsf\_local\_submit\_attributes.sh was run)
- Bug #54900 : [ glite-yaim-cream-ce ] config\_cream\_tomcat\_user should not add tomcat to VO FIXED
  - ◆ check the membership of any VO group
- Bug #54949 : Some job can remain in running state when BLParser is restarted for both lsf and pbs HOPEFULLY FIXED
  - ◆ Not easy to reproduce
  - ◆ Submitted several jobs (logged in different batch system log files) to a CREAM CE configured with the old blparser
  - ◆ Restarted CREAM
  - ◆ Didn't notice problems in getting the status of these jobs
- Bug #55078 : Possible final state not considered in BLParserPBS and BUdaterPBS CANNOT REPRODUCE
  - ◆ To test the fix it would be necessary to have a scenario for which in the Torque log file for a certain job the event "Job Run..." is followed by the event "dequeuing from"
  - ◆ Not able to reproduce such scenario
- Bug #55420 : Allow admin to purge CREAM jobs in a non terminal status FIXED
  - ◆ temporary disconnect any WN from the CE, e.g. shutting down the mom server in a TORQUE installation
  - ◆ submit a job
  - ◆ on the CE with administrator privileges run the command:  
/opt/glite/sbin/JobDBAdminPurger.sh -u -p -s 2 as described in the wiki page
  - ◆ verify with glite-ce-job-list that the job has been purged from the database
  - ◆ verify that the sandbox directory of that job has been removed from  
/opt/glite/var/cream\_sandbox
  - ◆ remove manually the job from the batch system and reconnect all the WN
- Bug #55438 : BUdater problems in updating job state with AssignFinalState for all batch system FIXED
  - ◆ Submitted 3 jobs lasting 2 hours to a CREAM CE with only 2 job slots.
  - ◆ For all the jobs the right events were logged by the bnotifier (i.e. it didn't log status=4 with failurereason=999)
- Bug #55531 : BUdaterPBS should consider lines like "unable to run job" FIXED

- ◆ Verified as specified here for job [https://cream-28.pd.infn.it:8443/CREAM543877125\(363638.cream-28.pd.infn.it\)](https://cream-28.pd.infn.it:8443/CREAM543877125(363638.cream-28.pd.infn.it)). Difficult to reproduce that Torque problem.
- Bug #55565 : BLAH configuration attribute `blah_disable_wn_proxy_renewal` fails to disable proxy renewal. FIXED
  - ◆ Verified issuing a `BLAH_JOB_REFRESH` proxy for a running job
  - ◆ Moreover the BLAH proxy renewal operation is not used anymore (the proxy on the CE is renewed by CREAM and no more by BLAH)
- Bug #56075 : Job failure reasons missing in the CREAM log file FIXED
  - ◆ submit a job with an unreachable host in the `inputsandbox` or in the `outputsandboxbasedesturi` parameter
  - ◆ verify that in the log file appears the message: `failureReason=Cannot move ISB (): error: globus_xio: Unable to connect to xxxx:2811 globus_xio: globus_libc_getaddrinfo failed.globus_common: Name or service not known`
- Bug #56339 : `[blah] "service glite-ce-blparser restart"` does not always work FIXED
  - ◆ try the command `/opt/glite/etc/init.d/glite-ce-blparser restart` and verify the correct behaviour of the script
- Bug #56367 : CREAM RPM depends on C libs FIXED
  - ◆ check if the package of `glite-ce-cream` contains any elf executable
- Bug #56518 : BLAH blparser doesn't start after boot of the machine FIXED
  - ◆ install the CE node from scratch specifying the parameter `BLPARSER_WITH_UPDATER_NOTIFIER=false` in the `yaim` configuration for `creamCE`
  - ◆ reboot the machine and verify that the `blparser_master` is running
- Bug #56697 : CREAM logging must be improved when CREAM register operation fails FIXED
  - ◆ force the service to fail a register operation, e.g. temporary renaming the sandbox directory
  - ◆ verify that the log reports at least the JobID and the reason of the failure
- Bug #57210 : BLAH `condor_submit` script doesn't recognize certain options. CANNOT REPRODUCE
  - ◆ Not possible to test the fix since we don't have CREAM based CEs with Condor as batch system
- Bug #57307 : `condor_submit.sh` does not support the handling of "local" attributes CANNOT REPRODUCE
  - ◆ Not possible to test the fix since we don't have CREAM based CEs with Condor as batch system
- Bug #57820 : `[yaim-cream-ce]` CREAM-CE publishes `GlueServiceDataValue` incomplete FIXED
  - ◆ run the infopvider: `/opt/glite/etc/gip/provider/glite-info-provider-service-cream-wrapper | grep GlueServiceDataValue`
  - ◆ verify that 3 different values are returned for the `GlueServiceDataValue`: the version, the DN and the host name of the CE
- Bug #58103 : Cream database Query performance FIXED
  - ◆ Internal improvement
  - ◆ run a set of stress-tests and verify the performance
- Bug #58109 : Wrong value for the "service version" property FIXED
  - ◆ verify the property using the command `glite-ce-service-info`



- Bug #58119 : CREAM CE: publish Production instead of Special as default value for GlueCEStateStatus FIXED
  - ◆ verify with `/opt/glite/libexec/glite-info-wrapper | grep -i gluecestatestatus`
- Bug #58423 : RFE: support for ISB/OSB transfers from/to gridftp servers running using credentials FIXED
  - ◆ tested using java-based UI
  - ◆ tested using the following JDL:
 

```
[
executable="/bin/ls";
inputsandbox={"gsiftp://lxsgaravatto.pd.infn.it:6787/etc/fstab?DN=/C=IT/O=INFN/OU=Pe
stdoutoutput="out-gsi.out";
stderr="err-gsi.err";
outputsandbox={"out-gsi.out", "err-gsi.err"}
outputsandboxbasedesturi="gsiftp://lxsgaravatto.pd.infn.it:6787/tmp?DN=/C=IT/O=INFN/
]
```
- Bug #58659 : NullPointerException from getStatus FIXED
  - ◆ try to overload the node with the testsuite: `cream-test-monitored-submit -r 30 -n 20000 -m 2000 -C 50 -l log4py.conf -j test.jdl -R --sotimeout 60 --vo dteam --valid 02:00` and verify that the log of the testsuite does not report any NullPointerException
- Bug #58792 : JobRegister fails, because cream\_sandbox directory doesn't exist FIXED
  - ◆ temporary rename the directory `/opt/glite/var/cream_sandbox` without turning off the service
  - ◆ submit a job and verify that the failure reports "cannot create the job's working directory!"
- Bug #58941 : [yaim-cream-ce] lcms confs for glxec and gridftp are not fully synchronized FIXED
  - ◆ verify that the file `/opt/glite/etc/lcms/lcms.db` is complaint with the one attached to the bug.
- Bug #59005 : Possible problem with hold/resumed jobs in BUdaterLSF FIXED
  - ◆ Verified as reported here
- Bug #59329 : Proxy symlinks left in the registry area until purged FIXED
  - ◆ submit a job and verify the verify the existence of the related symlink in the directory `/opt/glite/var/blah/user_blah_job_registry.bjr/registry.proxydir`
  - ◆ when the job terminates verify that the symlink has been removed by blah.
- Bug #59686 : Possible crash of BUdarePBS due to wrong malloc FIXED
  - ◆ Define the parameter `pbs_spoolpath` in the file `/opt/glite/etc/blah.config`
  - ◆ run the BUdaterPBS daemon and verify its liveness
- Bug #59862 : [ yaim-cream-ce ] broken -v functionality FIXED
  - ◆ remove a mandatory variable from the site-info.def, for examples `JOB_MANAGER`
  - ◆ run yaim configurator with option `-v` and verify that all the yaim functions are called.
- Bug #59962 : Sometimes the CREAM initialization fails with "UserId = ADMINISTRATOR is not enable for that operation"CANNOT REPRODUCE
- Bug #60831 : Error log message: "CREAM\_JOB\_SENSOR\_HOST parameter not specified" FIXED
  - ◆ verify that the parameter "CREAM\_JOB\_SENSOR\_HOST" is not defined in the file `/opt/glite/etc/glite-ce-cream/cream-config.xml`
  - ◆ submit several jobs
  - ◆ verify that the log of the CREAM service does not report the error above

- Bug #61322 : CREAM jw doesn't set GLITE\_WMS\_RB\_BROKERINFO FIXED
  - ◆ submit a job and verify that the jobwrapper script, contained into the sandbox area for that job, defines correctly the \_\_brokerinfo variable
- Bug #61401 : config\_cream\_blah and config\_cream\_clean don't take into account GLITE\_LOCATION\_LOG FIXED
  - ◆ verify that the log files of blahp are saved into the directory specified by GLITE\_LOCATION\_LOG
- Bug #61402 : [yaim-cream-ce] does not use GLITE\_LOCATION\_VAR/LOG in some cases FIXED
  - ◆ change the value of GLITE\_LOCATION\_VAR and GLITE\_LOCATION\_LOG and run the yaim configurator
  - ◆ verify that the new installation has been deployed into the the new directory and the log is written in the new location
- Bug #61407 : Set CE\_ID in the cream jw FIXED
  - ◆ submit a job and verify that the jobwrapper script, contained into the sandbox area for that job, defines correctly the CE\_ID variable
- Bug #61493 : [ yaim-cream-ce ] glxec\_get\_account policy order is wrong FIXED
  - ◆ As reported in the bug, this was fixed fixing bug #58941
- Bug #61604 : yaim-cream-ce should not install config\_gip\_software\_plugin FIXED
  - ◆ verify that the glite-yaim-cream-ce package does not contain the file config\_gip\_software\_plugin but it contains config\_cream\_gip\_software\_plugin instead
- Bug #61730 : CREAM jw: GLITE\_WMS\_LOG\_DESTINATION should always be set with the FQDN FIXED
  - ◆ submit a job and verify that the jobwrapper script, contained into the sandbox area for that job, defines a FQDN in the \_\_ce\_hostname variable
- Bug #61761 : CEMon must guarantee the notification rate FIXED
  - ◆ enable the "CE Sensor" plugin
  - ◆ create a subscription for the topic published by the sensor above with a running consumer: glite-ce-monitor-subscribe --cert <user\_proxy> --key <user\_proxy> --topic CE\_MONITOR --dialects ISM\_CLASSAD\_GLUE\_1.2 --consumer-url <consumer\_url> --rate 10 --duration 600 <cemonitor\_url>
  - ◆ create one or more subscriptions to non-existing consumer URL or to a fake blocking one (e.g. using nc -l -p <consumer port>) specifying the same rate as above
  - ◆ verify that the notification rate for the first consumer is correct
- Bug #61790 : Problems in CREAM CE when there are "strange" characters in the subject certificate FIXED
  - ◆ Verified submitting a job to a Torque CREAM CE with a proxy with subject: /DC=gov/DC=fnal/O=Fermilab/OU=Robots/CN=lcgcaf/CN=cdf/CN=Donatella Lucchesi/CN=UID:lucchesi
  - ◆ With the same proxy there were problems before (see [https://gus.fzk.de/ws/ticket\\_info.php?ticket=54767](https://gus.fzk.de/ws/ticket_info.php?ticket=54767) )
- Bug #62070 : Possible problem with notification time in BNotifier HOPEFULLY FIXED
  - ◆ Not possible to reproduce it according to the developer (M. Mezzadri)
- Bug #62207 : [ yaim-cream ] Enable Glue 2.0 publishing FIXED
  - ◆ Tested according <https://svnweb.cern.ch/trac/gridinfo/wiki/ResourceBDII> . Sent the

following query to the CE BDII: `ldapsearch -x -h $(hostname) -p 2170 -b o=glue` and verified that it returns GLUE2 information. This output was already "validated" by S. Burke.

- Bug #62436 : Possible problem with updater if job remain queued too long FIXED
  - ◆ Fixed as reported here : 3 jobs lasting 2 hours were submitted to a CREAM CE with only 2 job slots. For the third one the BNotifier logged the right events (i.e. it didn't log `status=4` with `failurereason=999`)
- Bug #62565 : `yaim-cream-ce` requires `BLPARSER_HOST` even if the new `blparser` has to be configured FIXED
  - ◆ Install the CE node from scratch removing the `BLPARSER_HOST` definition from the `site-info.def` and defining `BLPARSER_WITH_UPDATER_NOTIFIER=true`.
  - ◆ verify that the `yaim` log about any error concerning the variable above and the BNotifier and the Bupdater run correctly.
- Bug #62776 : Yaim config for CREAM CE erroneously requires `tomcat` in `glxec` group FIXED
  - ◆ Install the CE node from scratch and verify the following permissions:

```
-r--r----- 1 root glxec 535 Mar 1 10:47 /opt/glite/etc/glexec.conf
-r-sr-sr-x 1 root glxec 79792 Jun 11 2009 /opt/glite/sbin/glexec
```

- ◆ verify that the `glexec.conf` file contains the property: `"user_white_list = tomcat"`

- Bug #62893 : Possible proxy renewal problem in the CREAM `ju` FIXED
  - ◆ try to overload the node with the testsuite: `cream-test-monitored-submit -r 30 -n 20000 -m 2000 -C 50 -l log4py.conf -j test.jdl -R <ceID> --sotimeout 60 --vo dteam --valid 00:30`
  - ◆ verify that no proxy related issues occur
- Bug #63398 : CREAM `ju`: removal of token should be retried in case of failure FIXED
  - ◆ submit the following `jdl`:

```
[
environment= {"__token_file=gsiftp://host/path"};
executable="/bin/sleep";
arguments="30";
]
```

specifying existing host and path first and verify that the job terminate successfully; the owner of the token must be the mapped-user.

- ◆ submit the `jdl` above but specifying a fake host and/or path and verify that the job status reports 3 different failed attempts for taking the token:

```
"/opt/edg/libexec/edg-gridftp-base-rm: error globus_ftp_client: the server responded
```

- Bug #63874 : CREAM sandbox dir creation program should not attempt creation of parent directories.FIXED
  - ◆ temporary rename the directory `/opt/glite/var/cream_sandbox/<vname>`
  - ◆ submit a job using `voms-proxy` published by the given VO and verify that the job fails and no directory `/opt/glite/var/cream_sandbox/<vname>` has been created.

## Clean installation

- Installation steps:

```
wget http://etics-repository.cern.ch:8080/repository/pm/registered/repomd/name/patch_3179/
yum install xml-commons-apis
yum install glite-CREAM
wget http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.2/glite-TORQUE_utils
```

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```
wget http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.2/glite-TORQUE_server
yum install glite-TORQUE_utils glite-TORQUE_server
/opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE -n TORQUE_server -n TORQUE_utils
```

- View the log of yum for a clean installation
- View the log of yaim for a clean installation (TORQUE is used)

## Upgrade from production

- Upgrade steps:

```
wget http://etics-repository.cern.ch:8080/repository/pm/registered/repomd/name/patch_3179/
yum update
/opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE -n TORQUE_server -n TORQUE_utils
```

- View the log of yum for an upgrade
- View the log of yaim for an upgrade (TORQUE is used)

-- AlessioGianelle - 2010-02-05

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