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PATCH 4415

Automatic tests

- report #1:
  - ♦ CREAM UI version: 1.12.1; CREAM testsuite version: 1.0.7
  - ♦ Used direct polling for monitoring and BUpdater/BNotifier for status change detection
  - ♦ Batch system: TORQUE
  - ♦ All tests have been run (see the report from the testsuite) with the following results:
    - ◊ test #18 reports one submission failed due to network problems and one execution terminated by the batch system
    - ◊ all other tests have been correctly executed

Tested that the BDII is operational

```
ldapsearch -x -h cream-40.pd.infn.it -p 2170 -b o=infosys
```

Output is here

Checked the Glue 1.3 root entry:

```
ldapsearch -x -h cream-40.pd.infn.it -p 2170 -b mds-vo-name=resource,o=grid
```

Output is here

Checked the Glue 2.0 root entry:

```
ldapsearch -x -h cream-40.pd.infn.it -p 2170 -b o=glue
```

Output is here

Information content check:

```
$ gstat-validate-ce -H cream-40.pd.infn.it -p 2170 -b o=grid
OK - errors 0, warnings 0, info 0
```

Checked bugs

- Bug #54755 : Could YAIM warn if a site tries to enable whole-VO FQANs? FIXED
  - ♦ Define a VO with the character "/" as a prefix in the variables [queue]_GROUP_ENABLE of the site-info.def
  - ♦ Run the YAIM configurator and verify that in the output the following warning appears: "Queue [vo name] was enabled for one or more FQANs which specify an entire VO"

- Bug #61396 : CREAM and CEMon log4j.properties should take into account the value of GLITE_LOCATION_LOG FIXED
  - ♦ Specify the variable GLITE_LOCATION_LOG in the YAIM configuration (file services-glite-creamce), even with an nonexistent path, and reconfigure with YAIM.
  - ♦ Verify that the new path is correctly created and the log files for CREAM and CEMon are written in the new location

- Bug #62078 : Missing glite-pbsparser.log file on standalone Torque-Server FIXED
  - ♦ Act as for bug #61396 and verify that the log file glite-pbsparser.log is correctly written inside the new location

- Bug #63007 : CREAM sandbox dir should be relocatable FIXED
    - Define the variable CREAM_SANDBOX_PATH in the file services/glite-creamce
    - Reconfigure with YAIM, submit a job and verify that the sandbox of that job is placed into the new sandbox path

- Bug #63956 : config_cream_gip may use wrong VO FIXED
    - patch verified by the submitter

- Bug #68225 : In some cases the sudoers file created by yaim-cream-ce can be syntactically wrong FIXED
    - Consider a VO whose name contains a '-' character
    - Run the YAIM configurator and verify that the VO is filtered and does not appear in the sudoers file.

- Bug #69785 : Use #include to modify /etc/sudoer for CREAM with sudo >= 1.7.1 FIXED
    - With sudo version >= 1.7.1 installed, reconfigure with YAIM
    - Verify that all CREAM directives are written into the file /etc/sudoers.forcream
    - Update from glite-CREAM version < 3.2.8, reconfigure with YAIM
    - Verify that the CREAM directives have been moved from the original /etc/sudoers file into the new /etc/sudoers.forcream

- Bug #70285 : it should be possible to tell bhist and tracejob how many logs to read FIXED
    - Submit a bunch of jobs so that all the slots of the CE are busy for more than 24 hours, for example given 200 slots use the following test:

      ```
      cream-test-monitored-submit -r 30 -n 200 -m 200 -C 50 -j long.jdl -R [ce-resource-ur
      ```

      , where the jdl file contains:

      ```
      [executable="/bin/sleep";arguments="86400";]
      ```
    - Submit a new bunch of jobs so that they will be enqueued for more than 24 hours
    - Verify that all the jobs terminate correctly and that all the status changes are correctly logged into the Bnotifier log.

- Bug #70287 : Problem with AssignFinalState if state is IDLE FIXED
    - Define a value short enough for the parameter "alldone_interval" in the blah.config file, for example 1200 seconds.
    - Submit a bunch of jobs so that all the slots of the CE are busy for more than 1200 seconds, for example given 200 slots use the following test:

      ```
      cream-test-monitored-submit -r 30 -n 200 -m 200 -C 50 -j long.jdl -R [ce-resource-ur
      ```

      , where the jdl file contains:

      ```
      [executable="/bin/sleep";arguments="1800";]
      ```
    - Submit a new bunch of jobs whose idle time and effective processing time are larger than 1200 seconds.
    - Verify that all the jobs terminate correctly and that all the status changes are correctly logged into the Bnotifier log.

- Bug #70808 : PBS submission script creates wrong stagein/stageout directives with qsub's -W option FIXED
    - Save a backup of the BLAH submit wrapper, replacing the statement "rm -f $bls_tmp_file" with "cp $bls_tmp_file /tmp" in the script ${GLITE_LOCATION}/bin/blah_common_submit_functions.sh

♦ Submit a job and verify that the -W directive, as specified in the BLAH submit wrapper, contains a list of item "stagein=" and "stageout="
♦ Verify that all the file specified in the stagein or in the stageout directives are correctly moved between the CREAM and the worker node.

- Bug #71038 : CE certificate publication error FIXED
  ♦ Use a host certificate whose subject DN contains at least one blank character
  ♦ Run the YAIM configurator and verify that the attribute GlueServiceDataValue of the item

  ```
  GlueServiceDataKey=DN,GlueServiceUniqueID=[unique ID for the CE],Mds-Vo-name=resour
  ```

  contains the complete DN

- Bug #71055 : LL_ and IL_ PIDFILE added more times in /opt/glite/etc/lb.conf FIXED
  ♦ Run more times the YAIM configurator and verify that the file /opt/glite/etc/lb.conf does not change.

- Bug #71967 : There should be in blah the option to set the temporary job work dir FIXED
  ♦ Define the value of blah_wn_temporary_home_dir in the file ${GLITE_LOCATION}/etc/blah.config pointing to '/tmp'
  ♦ Restart all gLite services on the node.
  ♦ Submit the following jdl:

  ```
  [
  executable="/bin/pwd";
  stdoutput="out-pwd.txt";
  outputsandbox={
      "out-pwd.txt"
  };
  outputsandboxbasedesturi="gsiftp://xxxxx/tmp";
  epilogue="/bin/sleep";
  epiloguearguments="30";
  ]
  ```

  and verify that the file out-pwd.txt contains something like "/tmp/home_creXX_YYYYYYYYY/CREAMYYYYYYYYY

- Bug #72097 : cream-config.xml and cemonitor-config.xml should use GLITE_LOCATION_LOG and GLITE_LOCATION_VAR FIXED
  ♦ Define the variables GLITE_LOCATION_VAR=[new var directory] and CREAM_SANDBOX_PATH=[new sandbox dir] in the file services/glite-creamce
  ♦ Run the YAIM configurator and verify that the new var directory is specified into the following attributes:
    ◊ cream-config.xml: cream_scratch_dir, cream_sandbox_dir, delegation_storage, CREAM_SANDBOX_DIR, JOBS_SCRATCH_DIR
    ◊ cemonitor-config.xml: backendLocation

- Bug #72508 : variable CREAM_DB_PASSWORD missed in services/glite-creamce FIXED
  ♦ Verify that the file ${GLITE_LOCATION}/yaim/examples/siteinfo/services/glite-creamce contains the variable CREAM_DB_PASSWORD

- Bug #72756 : glite-ce-blahparser missed in gLiteservices FIXED
  ♦ Stop all the gLite service on the CE
  ♦ Remove the script glite-ce-blahparser from the gLiteservices list
  ♦ Reconfigure with YAIM and verify that the glite-ce-blahparser has been re-inserted into the list

- Bug #73765 : Performance problems with CREAM proxy renewal FIXED
    - ♦ Run the following test:

    ```
    cream-test-monitored-submit -r 30 -n 1000 -m 200 -C 50 -l log4py.conf --nopurge --so
    ```

    where the file 15m.jdl contains:

    ```
    [ executable="/bin/sleep"; arguments="900";]
    ```
    - ♦ Run a proxy renewal every 5 minutes specifying the delegation id as reported in log4py.conf
    - ♦ Keep the value of pending commands monitored, using the following script:

    ```
    for ((idx=0; idx < 240; idx++)); do /opt/glite/bin/glite_cream_load_monitor --show |
    ```
    - ♦ Verify that all the renewal requests are correctly processed and the number of pending commands does not increase

- Bug #73961 : /tmp of CREAM CE full of glexec* proxies FIXED
    - ♦ Submit a job and verifiy that no proxy has been created in the temporary directory /tmp

- Bug #74107 : ClientJobId missing in BNotifier classad output FIXED
    - ♦ Stop all gLite services on the CREAM node and run only the BNotifier/BUpdater (/opt/glite/etc/glite-ce-blahparser start)
    - ♦ Contact the BNotifier daemon via telnet and send the following set of commands:

    ```
    CREAMFILTER/[blah_prefix]
    PARSERVERSION/
    STARTNOTIFYJOBLIST/[blah_prefix][client_job_id]
    STARTNOTIFYJOBEND
    ```

    where

        - ◊ "[blah_prefix]" is the value of the parameter BLAH_JOBID_PREFIX of the cream configuration file
        - ◊ "[client_job_id]" is random 9-digits number so that the value "[blah_prefix][client_job_id]" is not contained into the BNotifier registry, this can be verified using the following command:

        ```
        strings $GLITE_LOCATION/var/blah/user_blah_job_registry.bjr/registry | grep [
        ```
    - ♦ Verify that the classad returned by the BNotifier contains the parameter "ClientJobId"
    - ♦ Close the connection with BNotifier and restart all gLite services on the node

Clean installation

- Installation steps:

```
wget http://etics-repository.cern.ch/repository/pm/registered/repomd/name/patch_4415_2/etio
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
wget http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.2/glite-TORQUE_serve
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/repository/pm/registered/repomd/name/patch_4415_2/eti
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)

This topic: EgeeJra1It > CreamTestsP4415
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