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CREAM CLI testsuite

A test suite for detailed testing of the command line interface to submit to a CREAM CE.

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Location: org.glite.testsuites.ctb/CREAM/CREAM-cli

The test suite covers all the glite-ce-* available commands:

- glite-ce-service-info
- glite-ce-delegate-proxy
- glite-ce-proxy-renew
- glite-ce-job-submit
- glite-ce-job-status
- glite-ce-job-cancel
- glite-ce-job-suspend
- glite-ce-job-resume
- glite-ce-job-purge
- glite-ce-job-list
- glite-ce-allowed-submission
- glite-ce-event-query
- glite-ce-job-output

These commands could not be tested without adding the test user as a CREAM "super-user":

- glite-ce-disable-submission
- glite-ce-enable-submission

The main goal of this testsuite is to check the behaviour of each of the commands listed above, with different meaningful options for every command (options such as help, version and debug are not considered). Testing the behaviour of the service is out of the scope of this suite, the result of the operation on the server side is not considered, nevertheless the command must be able to manage correctly any result reported by the service.

Every command handles a large number of faults and errors reported by the service, reproducing all these errors for each test is not viable; the aim of this suite is to check just the fault handling so where it is possible a single fault, representing a class of errors, is generated and tested.

In several cases the test for a client command requires the execution of another one first, with a well defined set of options, in order to prepare the environment for the test. The latter should be considered as "already tested", so the certifier should follow a specific order in the execution of the testsuite. Each test reports the list of prerequisites.

Most of the scripts contained into the testsuite require the submission of one or more jobs, in general for these submissions a very simple JDL file is used (`example.jdl`), the executable defined into this jdl is a just simple "sleep" with no ISB/OSB movement.

To execute the tests you need a valid voms proxy accepted by the resource, and you have to define some parameters in the configuration file (`test.conf`):

```
# Configuration file for the Cream-CLI test suite

# *REQUIRED*
# Set this to the CREAM resource to test
CREAM="<set this to a valid resource>"
```

```
# Optional
# Print debug messages (it could be overwritten by command line option -d)
DEBUG=0 # 0 or 1

# Define "waiting loop" parameters (after NUM_STATUS_RETRIEVALS*SLEEP_TIME
# seconds the job id considered lost and the test failed)
NUM_STATUS_RETRIEVALS=40
SLEEP_TIME=5

# A jdl file used to test commands
JDLFILE=$(dirname $0)/example.jdl
```

The only **required** parameter is **CREAM**.

Every scripts accept the `--debug` (or `-d`) option which overwrites the `DEBUG` parameter setting it to value 1 (some debug informations should be printed in standard output and the working directory is not cleanup at the end of the test).

CREAM-cli-service-info.sh

This script tests the command `glite-ce-service-info`:

- TEST 1: check option `--version`
- TEST 2: check the service info using various log level
- TEST 3: check if the `--conf` option works
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work

CREAM-cli-delegation.sh

This script tests the command `glite-ce-delegate-proxy`:

- TEST 1: delegate a proxy specifying CREAM URL and delegation ID
- TEST 2: re-delegate the proxy specified in the previous test
- TEST 3: check if the `--conf` option works
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work

CREAM-cli-delegation-renew.sh

This script tests the command `glite-ce-proxy-renew`:

- TEST 1: renew a proxy specifying CREAM URL and delegation ID
- TEST 2: try to renew a missing proxy
- TEST 3: check if the `--conf` option works
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: `CREAM-cli-delegation.sh`

CREAM-cli-job-submit.sh

This script tests the command `glite-ce-job-submit`:

- TEST 1: submit a job without mandatory option: `--autm-delegation`
- TEST 2: submit a job with automatic delegation (option `--autm-delegation`)
- TEST 3: submit a job using a previously delegated credentials (options `--delegationId`)
- TEST 4: check if the option `--output` works

- TEST 5: check if using again option `--output` the new joid is append to the existing file
- TEST 6: check if the `--conf` option works
- TEST 7: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: CREAM-cli-delegation.sh

CREAM-cli-job-status-simple.sh

This script tests the command `glite-ce-job-status`:

- TEST 1: submit a job and then retrieve its status
- TEST 2: submit a job which surely failed. Check if the final status is the ones expected
- TEST 3: check the status of a job setting log level to 1 (option `--level 1`):
- TEST 4: check the status of a job setting log level to 2 (option `--level 2`)
- TEST 5: check if the option `--input` works
- TEST 6: check if the `--conf` option works
- TEST 7: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: CREAM-cli-job-submit.sh

CREAM-cli-job-status-filtered.sh

This script tests the "filtered" options of the command `glite-ce-job-status`:

- TEST 1: check if the `--from` option works:
- TEST 2: check the `--from` and `--to` options together
- TEST 3: check if the `--status` option works (using REALLY-RUNNING)
- TEST 4: check if the `--status` option works (using DONE-OK)
- TEST 5: check if the `--all` option works
- TEST 6: check the requirements of the `--all` option (3 cases)

Prerequisites: CREAM-cli-job-submit.sh, CREAM-cli-job-status-simple.sh

CREAM-cli-job-cancel.sh

This script tests the command `glite-ce-job-cancel`:

- TEST 1: submit and then cancel a running job
- TEST 2: try to cancel a terminated job
- TEST 3: check if the `--all` option works
- TEST 4: check the requirements of the `--all` option (3 cases)
- TEST 5: check if the `--conf` option works
- TEST 6: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: CREAM-cli-job-submit.sh

CREAM-cli-job-suspend.sh (it works only with some batch systems)

This script tests the command `glite-ce-job-suspend`:

- TEST 1: submit and then suspend a running job
- TEST 2: check if `--all` option works
- TEST 3: try to suspend a terminated job

- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work
- TEST 5: check if the `--conf` option works

Prerequisites: `CREAM-cli-job-submit.sh`

CREAM-cli-job-resume.sh (it works only with some batch systems)

This script tests the command `glite-ce-job-resume`:

- TEST 1: submit, suspend and then resume a running job
- TEST 2: check if `--all` option works
- TEST 3: try to resume a running job
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work
- TEST 5: check if the `--conf` option works

Prerequisites: `CREAM-cli-job-submit.sh`, `CREAM-cli-job-suspend.sh`

CREAM-cli-job-purge.sh

This script tests the command `glite-ce-job-purge`:

- TEST 1: purge a finished job
- TEST 2: try to purge a running job
- TEST 3: try to purge again a previous purged job
- TEST 4: purge more finished jobs
- TEST 5: purge more jobs taking jobIDs from a file (`--input` option)
- TEST 6: check if the `--all` option works
- TEST 7: check the requirements of the `--all` option (3 cases)
- TEST 8: check if the `--conf` option works
- TEST 9: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: `CREAM-cli-job-submit.sh`

CREAM-cli-job-list.sh

This script tests the command `glite-ce-job-list`:

- TEST 1: check if the command returns the right number of jobs
- TEST 2: check if the `--output` option works
- TEST 3: check if the `--conf` option works
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: `CREAM-cli-job-submit.sh`, `CREAM-cli-job-status.sh`

CREAM-cli-event-query.sh

This script tests the command `glite-ce-event-query`:

- TEST 1: check if the command retrieves all pending events
- TEST 2: check if the command retrieves the last events
- TEST 3: check if the `--conf` option works
- TEST 4: save info into a logfile to check if `--debug` and `--logfile` options work

Prerequisites: CREAM-cli-job-submit.sh, CREAM-cli-job-status.sh, CREAM-cli-job-purge.sh

CREAM-cli-submission-management.sh

This script tests the command `glite-ce-allowed-submission`:

- TEST 1: check if the submissions to the CE are allowed
- TEST 2: check if the `--conf` option works
- TEST 3: save info into a logfile to check if `--debug` and `--logfile` options work

CREAM-cli-job-output.sh

This script tests the command `glite-ce-job-output`: test success if all the required (3) files are retrieved, and if the standard output (`out.txt`) contains the hostname of the worker node where job has been run.

- TEST 1: output retrieve without option
- TEST 2: output retrieve with `--dir` option
- TEST 3: check `--noint` option
- TEST 4: check if `--input` option works
- TEST 5: check if command works with multiple JOBID

Prerequisites: CREAM-cli-job-submit.sh, CREAM-cli-job-status.sh

The others two management commands `glite-ce-enable-submission` and `glite-ce-disable-submission` should be test only via a "cream super-users"; so they are not considered.

-- AlessioGianelle - 03 Jun 2008

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