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# Testing report: IGIRTC-146

## Summary

- Product: **CREAM v. 1.15.2**
- Release Task: Task IGIRTC-146
- ETICS Subsystem Configuration Name:
- VCS Tag:
- EMI Major Release: **EMI 3 (Monte Bianco)**
- Platform: **SL6 epel**
- Author: Sara Bertocco
- Outcome: "In Certification"

## Deployment tests

### Upgrade from EMI2 to EMI3 cream 1.15.2

#### CREAM LSF

- Update log file
- Configuration log file

## System tests

### Functionality tests LSF

#### Simple submission

```
[bertocco@cream-12 ~]$ cat /home/bertocco/jdl/larocca_test.jdl
[
executable="/bin/sleep";
arguments="1";
]
```

```
[bertocco@cream-12 ~]$ cat /home/bertocco/jdl/env.jdl
[
executable="/bin/env";
stdoutoutput="xx2341";
stderr="bb2341";
outputsandbox={"xx2341", "bb2341"};
outputsandboxbasedesturi="gsiftp://localhost";
]
```

```
$ glite-ce-job-submit -a -r cert-41.pd.infn.it:8443/cream-lsf-cert /home/bertocco/jdl/larocca_test.jdl https://cert-41.pd.infn.it:8443/CREAM478909634
```

```
[bertocco@cream-12 ~]$ glite-ce-job-submit -a -r cert-41.pd.infn.it:8443/cream-lsf-cert /home/bertocco/jdl/env.jdl https://cert-41.pd.infn.it:8443/CREAM539735721
```

```
[bertocco@cream-12 ~]$ glite-ce-job-status https://cert-41.pd.infn.it:8443/CREAM478909634 https://cert-41.pd.infn.it:8443/CREAM539735721
```

```
***** JobID=[https://cert-41.pd.infn.it:8443/CREAM478909634]
      Status      = [DONE-OK]
      ExitCode    = [0]
```

```
***** JobID=[https://cert-41.pd.infn.it:8443/CREAM539735721]
      Status      = [DONE-OK]
      ExitCode    = [0]
```

### Functionality testsuite (run by UI with /etc/emi-version 1.11.0-1)

```
$ /usr/bin/pybot /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmp09Ilzp.cream_testing/
INFO: Non-mandatory variable "sec_cert" has not been set.
INFO: Non-mandatory variable "sec_key" has not been set.
INFO: Non-mandatory variable "argus_host" has not been set.
INFO: Non-mandatory variable "sec_proxy_pass" has not been set.
INFO: Non-mandatory variable "argus_root_pass" has not been set.
=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
Check Executables :: Check whether the needed executables for the ... | PASS |
-----
Simple Submit :: Execute /bin/uname -a.Submit the jdl and wait for... | PASS |
-----
ISB Base URI :: Execute a bash shell script.The script is stored i... | PASS |
-----
ISB Client to CE :: Execute a bash shell script.The script is stor... | PASS |
-----
ISB gsiftp to CE :: Execute a bash shell script.The script is stor... | PASS |
-----
OSB localhost :: Execute /bin/uname -a.Store std out and error str... | PASS |
-----
OSB gsiftp BaseDestURI :: Execute /bin/uname -a.Store std out and ... | PASS |
-----
OSB gsiftp DestURI :: Execute /bin/uname -a.Store std out and erro... | PASS |
-----
Environment :: Execute a bash shell script.The script is stored lo... | PASS |
-----
Epilogue :: Execute two bash shell scripts,one for the job and the... | PASS |
-----
Prologue :: Execute two bash shell scripts,one for the job and the... | PASS |
-----
Explicit Delegation :: Test job submission with explicit delegatio... | PASS |
-----
Job Cancel :: Test job cancellation.Two cases are tested:          | PASS |
-----
Job List :: Test the job listing cli utility.Store the list of the... | PASS |
-----
Job Suspend - Resume :: Submit a job and suspend it.Wait until it'... | PASS |
-----
Manually Cancel Job :: Submit a job and then manually cancel it on... | PASS |
-----
Verify CE service info :: This test case verifies the output of th... | PASS |
-----
Enable - Disable Submission :: This test case tests the proper fun... | PASS |
-----
Job Purge :: This test case verifies the proper functionality of t... | PASS |
-----
Admin Manage Job :: This test case checks whether a user can manag... | FAIL |
Mandatory variable sec_proxy_pass is empty!
-----
Limiter :: NOTE: This test case is about 25 minutes long!          | PASS |
-----
Ban User :: This test case tests if the banning of user works. The... | PASS |
-----
Sandbox Staging :: This test case tests the two different Sandbox ... | PASS |
-----
Validate Glue Schema :: Run the glue validator on the cream host.    | PASS |
```

```

-----
Automatic Proxy Purging :: This test case checks the automatic pro... | PASS |
-----
Verify Job Status Output :: This test is checking the output of th... | PASS |
-----
OutputData :: This test case tests the OutputData jdl attribute. T... | FAIL |
'[]' should not be empty
-----
Automatic Job Purge :: This test case is testing the functionality... | PASS |
-----
Proxy Renewal :: Submit a job lasting 20 minutes using a proxy val... | PASS |
-----
CPU Allocation 1 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 2 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 3 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 4 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 5 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 6 :: Validate the contents of the batch job submiss... | PASS |
-----
Resource BDII :: Check if the resource bdii publishes all the rele... | PASS |
-----
Logging and Bookkeeping :: Check if the logging and bookkeeping se... | FAIL |
_error: WMS Job status polling failed with return value: 1
Command reported: Traceback (most recent call last):
, File "/usr/bin/glite-wms-job-status", line 53, in <module>
,   import wmsui_utils
, ImportError: No module named wmsui_utils
-----
Old BLParser Restart :: Configure a CREAM CE using the old blah bl... | PASS |
-----
Cream Test Suite :: This is the main testing module,needed for tes... | FAIL |
39 critical tests, 36 passed, 3 failed
39 tests total, 36 passed, 3 failed
=====
Output: /home/bertocco/output.xml
Log: /home/bertocco/log.html
Report: /home/bertocco/report.html

```

- **Functionality testsuite log**

### Check of failed tests (run by UI with /etc/emi-version 2.8.0-1)

- - ◆ Admin Manage Job fails because the test requires to have two user proxies and the tester has only one.
  - ◆ Logging and Bookkeeping failure was due to my glite-UI misconfiguration problem. From a different UI the test is successful

```

$ /usr/bin/pybot -i lb /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmplepXyI.cream_t
INFO: Non-mandatory variable "sec_cert" has not been set.
INFO: Non-mandatory variable "sec_key" has not been set.
INFO: Non-mandatory variable "argus_host" has not been set.
INFO: Non-mandatory variable "sec_proxy_pass" has not been set.
=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
Logging and Bookkeeping :: Check if the logging and bookkeeping se... | PASS |
-----
Cream Test Suite :: This is the main testing module,needed for tes... | PASS |
1 critical test, 1 passed, 0 failed

```

```
1 test total, 1 passed, 0 failed
=====
Output: /home/bertocco/output.xml
Log:    /home/bertocco/log.html
Report: /home/bertocco/report.html
```

◇ Logging and Bookkeeping log

◆ Outputdata test fails for a configuration problem

```
$ /usr/bin/pybot -i outputdata /opt/cream_test/testsuite/cream_test_suite.ht
INFO: The files of this testsuite will be stored under: /tmp/tmpkkHrsW.cream_t
INFO: Non-mandatory variable "sec_cert" has not been set.
INFO: Non-mandatory variable "sec_key" has not been set.
INFO: Non-mandatory variable "argus_host" has not been set.
INFO: Non-mandatory variable "sec_proxy_pass" has not been set.
=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
OutputData :: This test case tests the OutputData jdl attribute. T... | FAIL |
'[]' should not be empty
-----
Cream Test Suite :: This is the main testing module,needed for tes... | FAIL |
1 critical test, 0 passed, 1 failed
1 test total, 0 passed, 1 failed
=====
Output: /home/bertocco/output.xml
Log:    /home/bertocco/log.html
Report: /home/bertocco/report.html
```

◇ outputdata log

```
$ /usr/bin/glite-ce-job-output -d -N -D /tmp/tmpMuznan.cream_testing/ou
2013-05-13 12:32:10,253 DEBUG - Using certificate proxy file [/tmp/x509
2013-05-13 12:32:10,276 WARN - No configuration file suitable for loadi
2013-05-13 12:32:10,276 DEBUG - Logfile is [/tmp/glite_cream_cli_logs/g
2013-05-13 12:32:10,277 DEBUG - Processing job [https://cert-41.pd.infn

2013-05-13 12:32:10,277 DEBUG - Connecting to [https://cert-41.pd.infn.
2013-05-13 12:32:10,277 DEBUG - Contacting service [https://cert-41.pd.
2013-05-13 12:32:10,348 DEBUG - JobID [https://cert-41.pd.infn.it:8443/
2013-05-13 12:32:10,349 INFO - For JobID [https://cert-41.pd.infn.it:84
2013-05-13 12:32:10,350 DEBUG - Will execute command [/usr/bin/uberftp
[bertocco@cert-27 ~]$ ls /tmp/tmpMuznan.cream_testing/outputdata/cert-4

$ cat /tmp/tmpMuznan.cream_testing/outputdata/cert-41.pd.infn.it_8443_C
#
# Autogenerated by JobWrapper!
#
# The file contains the results of the upload and registration
# process in the following format:
# <outputfile> <lfn|guid|Error>

script_output.txt      Error: [GFAL][get_se_types_and_endpoints][[] [BDII]
lcg_cr: Invalid argument
```

## Regression tests LSF

**Verification attached bugs for CREAM LSF**

**Bug #101221 CREAM sends wrong authorization requests to Argus containing attributes with empty values. not reproducible**

**Bug #101108 Minor issues from INFN-T1 ???**

```
# grep USE_ services/glite-creamce
USE_CEMON=false
USE_EMIES=false

/opt/glite/yaim/bin/yaim -c -s /usr/local/nfs1/jral_test/cert-41/site-info.def -n creamCE -n LSF
.....
INFO: YAIM terminated succesfully.

# grep tomcat6 /opt/glite/yaim/log/yaimlog
Stopping tomcat6: [ OK ]
Starting tomcat6: [ OK ]
Stopping tomcat6: [ OK ]
INFO: Configuring /etc/tomcat6/server.xml...
Starting tomcat6: [ OK ]
```

**yaim log**

```
# ls -l /etc/tomcat6/Catalina/localhost
total 4
-rw-r--r-- 1 tomcat tomcat 56 May  9 17:00 ce-cream.xml

# cat /etc/glite-ce-cream/log4j.properties
log4j.rootLogger=debug, fileout
log4j.logger.httpClient.wire.content=off
log4j.logger.org.glite.voms.PKIStore=off
log4j.appender.fileout=org.apache.log4j.RollingFileAppender
log4j.appender.fileout.File=/var/log/cream/glite-ce-cream.log
log4j.appender.fileout.MaxFileSize=10MB
log4j.appender.fileout.MaxBackupIndex=20
log4j.appender.fileout.layout=org.apache.log4j.PatternLayout
log4j.appender.fileout.layout.ConversionPattern=%d{dd MMM yyyy HH:mm:ss,SSS} %p %c - %m%n
# service tomcat6 restart
Stopping tomcat6: [ OK ]
Starting tomcat6: [ OK ]

Submit 3000 jobs using the stress testsuite:
# python2.6 /opt/cream_stress_test/bin/cream_stress_test.py -d single -n 3000 -c 4 -s 5 -e cert-
```

After all jobs are finished:

```
# ls -l /var/log/cream/glite-ce-cream.log
-rw-r--r-- 1 tomcat tomcat 408803 May 21 11:13 /var/log/cream/glite-ce-cream.log
```

**Standard conformance tests****Glue 1 Compliance**

- glue-validator -t glue1 -h cert-41.pd.infn.it -p 2170 -b o=grid

log

**Glue 2 Compliance**

\*

```
glue-validator -t glue2 -h cert-41.pd.infn.it -p 2170 -b o=glue
```

log

## Performance and scalability tests

- Submit 3000 jobs (sleep 30) using 4 concurrent processes

```
# python2.6 /opt/cream_stress_test/bin/cream_stress_test.py -d single -n 3000 -c 4 -s 5 -e cert-  
stress_test.log
```

- Submit and cancel 3000 jobs (sleep 30) using 4 concurrent processes

```
# python2.6 /opt/cream_stress_test/bin/cream_stress_test.py -d single -n 3000 -c 4 -s 5 -e cert-  
cancel_stress_test.log
```

- Submit and cancel 3000 jobs (sleep 50) using 12 concurrent processes

```
# python2.6 /opt/cream_stress_test/bin/cream_stress_test.py -d single -n 3000 -c 12 -s 5 -e cert-  
cancel_stress_test_3.log
```

-- SaraBertocco - 2013-05-09

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This topic: IGIRRelease > EMI3CREAMTaskJiraIGIRTC-146\_SL6

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