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Testing report: IGIRTC-133

Summary

- Product: **CREAM v. 1.15.1**
- Release Task: Task #34043
- ETICS Subsystem Configuration Name: emi-cream-ce_R_1_15_1_1, emi-cream-ui_R_1_15_1_1
- VCS Tag: emi-cream-ce-1.2.1-2, dynsched-generic-2.5.1-3, glite-ce-common-java-1.15.1-2, glite-ce-cream-api-java-1.15.1-2, glite-ce-cream-core-1.15.1-2, glite-ce-cream-es-1.15.1-2, glite-ce-cream-utils-1.3.1-4, glite-ce-wsdl-1.15.1-1, glite-ce-yaim-cream-ce-4.4.1-4, glite-jdl-api-java-3.3.1-2,
- EMI Major Release: **EMI 3 (Monte Bianco)**
- Platform: **SL6 epel**
- Author: Sara Bertocco
- Testing report: Testing Report file
- Certification report: Certification Report file
- Outcome: "In Certification"

Deployment tests

Clean Installation

CREAM PBS PASSED

- Installation log file
- Configuration log file

CREAM LSF PASSED

- Installation log file
- Configuration log file

CREAM SLURM PASSED

- Installation log file
- Configuration log file

Upgrade Installation

CREAM PBS PASSED

- Update log file
- Configuration log file

CREAM LSF PASSED

- Update log file
- Configuration log file

Unit Tests

System tests

Functionality tests

CREAM PBS PASSED

The "Verify Job Status Output" test fails because a bug in the UI EMI 2 used to launch the testsuite. Other tests are excluded for configuration issues.

```
$ pybot -e bdii -e glue -e job_man -e old_blah /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmpMzx6BW.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.
=====
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 |
-----
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 |
-----
Automatic Proxy Purging :: This test case checks the automatic pro... | PASS |
-----
Verify Job Status Output :: This test is checking the output of th... | FAIL |
['https://cert-42.pd.infn.it:8443/CREAM039112575', 'CANCELLED', 'https://cert-42.pd.infn.it:8443
-----
OutputData :: This test case tests the OutputData jdl attribute. T... | PASS |
-----
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 |
-----
Logging and Bookkeeping :: Check if the logging and bookkeeping se... | PASS |
-----
Cream Test Suite :: This is the main testing module,needed for tes... | FAIL |
35 critical tests, 34 passed, 1 failed
35 tests total, 34 passed, 1 failed
=====
Output: /home/bertocco/output.xml
Log: /home/bertocco/log.html
Report: /home/bertocco/report.html

```

- Functionality tests log file

CREAM LSF PASSED

- job_man excluded because requires two proxyes which the certifier has not.
- old_blah excluded because the ce is configured with new blah
- OutputData usage check fails for configuration issues
- Logging and Bookkeeping check fails for UI installation issues.

```

$ /usr/bin/pybot -e bdii -e glue -e job_man -e old_blah /opt/cream_test/testsuite/cream_test_su
INFO: The files of this testsuite will be stored under: /tmp/tmp1fA8m_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 |
-----

```

CREAM PBS PASSED

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```
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 |
-----
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 |
-----
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 |
-----
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
-----
Cream Test Suite :: This is the main testing module,needed for tes... | FAIL |
```

CREAM LSF PASSED

35 critical tests, 33 passed, 2 failed
 35 tests total, 33 passed, 2 failed

```
=====
Output: /home/bertocco/output.xml
Log:    /home/bertocco/log.html
Report: /home/bertocco/report.html
```

• **Functionality tests log file**

```
$ /usr/bin/pybot -i glue /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmp48uh_f.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 ...
=====
Validate Glue Schema :: Run the glue validator on the cream host.          | 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
```

• **Validate glue schema test log**

```
$ /usr/bin/pybot -i bdii /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmpWmVNrW.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 ...
=====
Resource BDII :: Check if the resource bdii publishes all the rele... | 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
```

• **Check resource bdii test log**

CREAM SLURM PASSED

Reasons for excludes tests:

- sb_stage tests the two different Sandbox staging operations available for the /etc/glite-ce-cream/cream-config.xml, LRMS and GSIFTP, but using slurm the LRMS mode is not running
- bdii, outputdata, lb require that the ce is published by a top bdii and the ce under test is not published
- jon_man requires two proxies and the certifier has one only
- old_blah tests old blparser not supported in slurm

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- man_cancel is not supported by the testsuite for slurm
- cpu_alloc tests mpi features and mpi is not configured in the used testbed

```
$ /usr/bin/pybot -e sb_stage -e bdii -e glue -e job_man -e old_blah -e man_cancel -e outputdat
INFO: The files of this testsuite will be stored under: /tmp/tmpnECjfv.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 |
-----
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 |
-----
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 |
-----
Automatic Proxy Purging :: This test case checks the automatic pro... | PASS |
-----
Verify Job Status Output :: This test is checking the output of th... | PASS |
-----
Automatic Job Purge :: This test case is testing the functionality... | PASS |
-----
Proxy Renewal :: Submit a job lasting 20 minutes using a proxy val... | PASS |
-----
Cream Test Suite :: This is the main testing module,needed for tes... | PASS |
25 critical tests, 25 passed, 0 failed
25 tests total, 25 passed, 0 failed
```

CREAM SLURM PASSED

```
=====  
Output: /home/bertocco/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/output.xml  
Log:    /home/bertocco/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/log.html  
Report: /home/bertocco/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/report.html
```

- **Functionality tests log file**

```
$ /usr/bin/pybot -i glue /opt/cream_test/testsuite/cream_test_suite.html  
...  
=====  
Cream Test Suite :: This is the main testing module,needed for testing the ...  
=====  
Validate Glue Schema :: Run the glue validator on the cream host.      | 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/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/output.xml  
Log:    /home/bertocco/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/log.html  
Report: /home/bertocco/mbutos_cream_testsuite/glite-testsuites-cream-1.0.7-0/report.html
```

- **Validate glue schema test log**

Standard conformance tests

Glue 1 Compliance

LSF FAILED ?

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

PBS FAILED ?

- glue-validator -t glue1 -h cert-42.pd.infn.it -p 2170 -b o=grid
log

Glue 2 Compliance

LSF PASSED

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

PBS PASSED

- glue-validator -t glue2 -h cert-42.pd.infn.it -p 2170 -b o=glue
log

Performance and scalability tests

LSF PASSED

- `./bin/cream-test-monitored-submit -r 30 -n 1000 -m 50 -C 50 -l log4py.conf -j jdl/testsand`
log
- `./bin/cream-test-monitored-cancel -r 30 -n 1000 -m 50 -C 50 -l log4py.conf -j jdl/simple.j`
log
- `./bin/cream-test-monitored-lease-updated -r 60 -n 50 -m 10 -C 10 -l log4py.conf -W 1200 --`
log

PBS NA

Integration testing

Tests described:

- <https://twiki.cern.ch/twiki/bin/view/EMI/EmiJra1TaskForceIntegrationTesting>
 - ◆ test 2: "CEMon to use Argus for authorization "
 - ◇ NA
 - ◆ test 3: "CREAM jobs executed under different backends is properly treated by APEL client "
 - ◇ PASSED - proven by functionality tests of different CREAM + LSF, TORQUE, SGE modules
 - ◆ test 16: "Do authorization filtering based on VOMS attributes and ARGUS authorization" *
 - NA

-- SaraBertocco - 2013-03-04

This topic: IGIRelase > EMI2CREAMTask34043SL6

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