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CREAM v. 1.14.3 (family) - Testing report SL5: IGIRTC-125

Summary

- Product: **CREAM v. 1.14.3**
- Release Task: Task #38531
- ETICS Subsystem Configuration Name:
- VCS Tag:
- EMI Major Release: **EMI 2 (Matterhorn)**
- Platform: **SL5 epel**
- Author: Sara Bertocco
- Testing report: [[[Testing Report file]]]
- Certification report: [[[Certification Report file]]]
- Outcome: "Certified"

Deployment tests

Clean Installation

CREAM PBS

- ♦ Installation log file
- ♦ Configuration log file

CREAM LSF

- ♦ Installation log file
- ♦ Configuration log file

Upgrade Installation

CREAM PBS

- ♦ Update log file
- ♦ Configuration log file

CREAM LSF

- ♦ Update log file
- ♦ Configuration log file

Unit Tests

System tests

The tests are performed with two different user interfaces:

- tests of CREAM PBS use UI EMI version 1.11.0-1
- tests of CREAM LSF use UI EMI version 2.5.1-1

this is the reason why the test "Verify Job Status Output" fails in the lsf version: it is a UI problem.

Authentication using ARGUS in PBS.

- Test "bdii" and "glue" are covered in compliance tests
- Test "job_man" is excluded because it requires two proxy certificates and the certifier has one only
- Test "ban user" is failing in pbs because it is not correctly running in argus. The test does in the argus server:

```
# pap-admin un-ban subject "/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sara B
# /etc/init.d/argus-pepd clearcache
# /etc/init.d/argus-pdp reloadpolicy
```

then it tries a job-submission and it should fail, instead it is successful.

- Test 'old_blah' is excluded because a ssh communication error between ce and ui.

Functionality tests

CREAM PBS

```
$ 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/tmp1mUltH.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 "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 |
```

System tests

```

-----
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... | FAIL |
Expected error '*' did not occur
-----
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... | 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
=====

```

- Functionality testsuite log

CREAM LSF

```

$ 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/tmppeeI65.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 |
-----

```

CREAM PBS

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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... | FAIL |
['https://cream-48.pd.infn.it:8443/CREAM028512789', 'DONE-OK', 'https://cream-48.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
=====
```

- Functionality testsuite log

Regression tests

Verification attached bugs for CREAM Torque

Bug #99639: lcg-info-dynamic-scheduler-pbs cannot parse qstat output with spurious lines **FIXED**

```
[root@cream-40 ~]# qstat -f > testBug99639.txt
```

Adding some black line

```
[root@cream-40 ~]# head testBug99639.txt
Job Id: 181.cream-40.pd.infn.it
  Job_Name = crm40_380641998
  Job_Owner = dteam009@cream-40.pd.infn.it
  job_state = Q
  queue = cert
  server = cream-40.pd.infn.it

  Checkpoint = u
  ctime = Fri Feb  8 14:09:31 2013
  Error_Path = cream-40.pd.infn.it:/dev/null
```

Execution command:

```
[root@cream-40 ~]# /usr/libexec/lcg-info-dynamic-scheduler -c testBug99639.txt
```

Bug #95184: Missing real value for GlueCEPolicyMaxSlotsPerJob **FIXED**

```
[root@cream-40 ~]# qmgr -c "set queue cert resources_max.procct = 4"
```

```
[root@cream-40 ~]# /var/lib/bdii/gip/plugin/glite-info-dynamic-ce
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-creamtest1,mds-vo-name=resource,o=grid
GlueCEInfoLRMSVersion: 2.5.7
GlueCEInfoTotalCPUs: 8
GlueCEPolicyAssignedJobSlots: 8
....
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-cert,mds-vo-name=resource,o=grid
GlueCEInfoLRMSVersion: 2.5.7
GlueCEInfoTotalCPUs: 8
GlueCEPolicyAssignedJobSlots: 8
GlueCEStateFreeCPUs: 8
GlueCEPolicyMaxCPUTime: 2880
GlueCEPolicyMaxObtainableCPUTime: 2880
GlueCEPolicyMaxWallClockTime: 1
GlueCEPolicyMaxObtainableWallClockTime: 72
GlueCEPolicyMaxSlotsPerJob: 4
GlueCEStateStatus: Testing
....
```

From UI

```
[traldi@cert-25 ~]$ ldapsearch -x -h cream-40.pd.infn.it -p 2170 -b mds-vo-name=resource,o=grid
1 GlueCEPolicyMaxSlotsPerJob: 4
```

Bug #96636 Time limits for GLUE 2 are different to GLUE 1 FIXED

```

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=glue '(&(objectclass=G
....
dn: GLUE2ShareID=cms_ops_cream-40.pd.infn.it_ComputingElement, GLUE2ServiceID=c
ream-40.pd.infn.it_ComputingElement, GLUE2GroupID=resource, o=glue
GLUE2ComputingShareMaxCPUTime: 172800
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=glue '(&(objectclass=G
....
# cert_ops_cream-40.pd.infn.it_ComputingElement, cream-40.pd.infn.it_Computin
gElement, resource, glue
dn: GLUE2ShareID=cert_ops_cream-40.pd.infn.it_ComputingElement, GLUE2ServiceID=
cream-40.pd.infn.it_ComputingElement, GLUE2GroupID=resource, o=glue
GLUE2ComputingShareMaxWallTime: 4320
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=glue '(&(objectclass=G
....
# cms_ops_cream-40.pd.infn.it_ComputingElement, cream-40.pd.infn.it_Computing
Element, resource, glue
dn: GLUE2ShareID=cms_ops_cream-40.pd.infn.it_ComputingElement, GLUE2ServiceID=c
ream-40.pd.infn.it_ComputingElement, GLUE2GroupID=resource, o=glue
GLUE2ComputingShareDefaultCPUTime: 172800
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=glue '(&(objectclass=G
....
# cms_ops_cream-40.pd.infn.it_ComputingElement, cream-40.pd.infn.it_Computing
Element, resource, glue
dn: GLUE2ShareID=cms_ops_cream-40.pd.infn.it_ComputingElement, GLUE2ServiceID=c
ream-40.pd.infn.it_ComputingElement, GLUE2GroupID=resource, o=glue
GLUE2ComputingShareDefaultWallTime: 4320
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=grid '(&(objectclass=G
....
# cream-40.pd.infn.it:8443/cream-lsf-cms, resource, grid
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-cms, Mds-Vo-name=resource
, o=grid
GlueCEPolicyMaxCPUTime: 2880
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=grid '(&(objectclass=G
....
# cream-40.pd.infn.it:8443/cream-lsf-cms, resource, grid
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-cms, Mds-Vo-name=resource
, o=grid
GlueCEPolicyMaxObtainableCPUTime: 2880
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=grid '(&(objectclass=G
....
# cream-40.pd.infn.it:8443/cream-lsf-cms, resource, grid
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-cms, Mds-Vo-name=resource
, o=grid
GlueCEPolicyMaxWallClockTime: 72
...

[traldi@cert-25 ~]$ ldapsearch -x -H ldap://cream-40.pd.infn.it:2170 -b o=grid '(&(objectclass=G
....
# cream-40.pd.infn.it:8443/cream-lsf-cms, resource, grid
dn: GlueCEUniqueID=cream-40.pd.infn.it:8443/cream-lsf-cms, Mds-Vo-name=resource
, o=grid

```

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GlueCEPolicyMaxObtainableWallClockTime: 72

...

Bug #99747: glite-info-dynamic-ce does not update GLUE2ComputingShareServingState FIXED

*** From UI**

```
$ glite-ce-enable-submission cream-06.pd.infn.it:8443
Operation for enabling new submissions succeeded
```

• On CE

```
# /sbin/runuser -s /bin/sh ldap -c "/var/lib/bdii/gip/plugin/glite-info-cream-glue2" |grep Servin
GLUE2EndpointServingState: production
```

*** From UI**

```
$ glite-ce-disable-submission cream-06.pd.infn.it:8443
Operation for disabling new submissions succeeded
```

• On CE

```
# /sbin/runuser -s /bin/sh ldap -c "/var/lib/bdii/gip/plugin/glite-info-cream-glue2" |grep Servin
GLUE2EndpointServingState: draining
```

Bug #93074: CREAM CE/YAIM: add knob to disable SSH key scanning FIXED

```
[root@cream-40 ~]# egrep -v ^# /opt/glite/yaim/functions/config_torque_submitter_ssh | head -12

config_torque_submitter_ssh_check (){
    requires $1 BATCH_SERVER
}

config_torque_submitter_ssh (){
    [ -n "$TORQUE_NO_SSH_KEYSCAN" ] && return

if [ -z "${TORQUE_VAR_DIR}" ]; then
```

Verification attached bugs for CREAM LSF

Bug #99747: glite-info-dynamic-ce does not update GLUE2ComputingShareServingState FIXED

• From UI

```
$ glite-ce-disable-submission cream-48.pd.infn.it:8443
Operation for disabling new submissions succeeded
```

• On CE

```
# /sbin/runuser -s /bin/sh ldap -c "/var/lib/bdii/gip/plugin/glite-info-cream-glue2" |grep Servin
GLUE2EndpointServingState: draining
```

*** From UI**

```
$ glite-ce-enable-submission cream-48.pd.infn.it:8443
Operation for enabling new submissions succeeded
```

Bug #99747: glite-info-dynamic-ce does not update GLUE2ComputingShareServingState FIXED 7

Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... FAIL
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
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 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... FAIL
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... FAIL
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok
 Verifying single-valued attributes only have one value. ... ok
 Validating data types. ... ok
 Verifying the existence of mandatory attributes. ... ok
 Verifying the object class ... ok


```

Verifying the object class ... ok
Verifying single-valued attributes only have one value. ... ok
Validating data types. ... ok
Verifying the existence of mandatory attributes. ... ok
Verifying the object class ... ok
Verifying single-valued attributes only have one value. ... ok
Validating data types. ... ok
Verifying the existence of mandatory attributes. ... ok
Verifying the object class ... ok
Verifying single-valued attributes only have one value. ... ok

```

```

=====
FAIL: Validating data types.
-----

```

```

Traceback (most recent call last):
  File "/usr/lib/python2.4/site-packages/validator/EntryTest.py", line 60, in test_data_types
    self.assertTrue(check(value), message)
AssertionError: The field GLUE2ComputingShareServingState with value 'testjral' does not follow t

```

```

=====
FAIL: Validating data types.
-----

```

```

Traceback (most recent call last):
  File "/usr/lib/python2.4/site-packages/validator/EntryTest.py", line 60, in test_data_types
    self.assertTrue(check(value), message)
AssertionError: The field GLUE2ComputingShareServingState with value 'testjral' does not follow t

```

```

=====
FAIL: Validating data types.
-----

```

```

Traceback (most recent call last):
  File "/usr/lib/python2.4/site-packages/validator/EntryTest.py", line 60, in test_data_types
    self.assertTrue(check(value), message)
AssertionError: The field GLUE2ComputingShareServingState with value 'testjral' does not follow t

```

```

=====
FAIL: Validating data types.
-----

```

```

Traceback (most recent call last):
  File "/usr/lib/python2.4/site-packages/validator/EntryTest.py", line 60, in test_data_types
    self.assertTrue(check(value), message)
AssertionError: The field GLUE2EndpointCapability with value 'information.publication' does not f

```

```

=====
FAIL: Validating data types.
-----

```

```

Traceback (most recent call last):
  File "/usr/lib/python2.4/site-packages/validator/EntryTest.py", line 60, in test_data_types
    self.assertTrue(check(value), message)
AssertionError: The field GLUE2ExecutionEnvironmentPlatform with value 'i686' does not follow the

```

```

-----
Ran 156 tests in 0.048s

```

FAILED (failures=5)

Errors are because of use of a State value not defined in the default glue-validator table.

Performance and scalability tests

Integration testing

Tests described:

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- <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 - 2013-02-01

This topic: IGIRelease > EMI2CREAMTask38531SL5

Topic revision: r12 - 2013-03-31 - CristinaAiftimiei



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