

Certification report jira RTC-ISSUE 163: CREAM TORQUE module v. 2.1.2 (EMI3)

Summary

- Product: **CREAM TORQUE module v. 2.1.2**
- Release Task: CREAM 1.14.6 - CREAM TORQUE module 2.1.2
- EMI Major Release: EMI 3 (Monte Bianco)
- Platform: SL5 epel
- Author: Sara Bertocco
- Outcome: In certification

SL5

Deployment tests

Clean Installation PASSED

- EMI3 CREAM Torque Module SL5 clean installation and configuration log .

Upgrade Installation PASSED

- EMI3 CREAM Torque Module SL5 update log .

System tests

Functionality tests WARNING

```
[bertocco@cert-24 ~]$ pybot -e glue -e job_man -e auto_job_purge /opt/cream_test/testsuite/cream_
INFO: The files of this testsuite will be stored under: /tmp/tmpthdUBG.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.
=====
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 |
```

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```
-----
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... | 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... | PASS |
-----
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... | PASS |
36 critical tests, 36 passed, 0 failed
36 tests total, 36 passed, 0 failed
=====
```

• Functionality testsuite log

The test "Automatic Job Purge" fails with the error "Exception in thread "main"
java.lang.NoClassDefFoundError: org/apache/log4j/Logger".

```
[bertocco@cert-24 ~]$ pybot -i auto_job_purge /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmpRgRnQY.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.
```

Functionality tests WARNING

```

=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
Automatic Job Purge :: This test case is testing the functionality... | FAIL |
_error: JobDBAdminPurger non-zero return value detected! Check report file.
-----
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
=====

```

- Automatic job purge log

To fix - it is needed to add to

```
/usr/sbin/JobDBAdminPurger.sh
```

the row:

```
classPath=${classPath}:/usr/share/java/log4j.jar
```

- Testsuite run:

```

[bertocco@cert-24 ~]$ pybot -i auto_job_purge /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under: /tmp/tmpq0P3yI.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.
=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
Automatic Job Purge :: This test case is testing the functionality... | 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

```

- Automatic job purge log

Dynamic information test PASSED

```

[root@cream-30 ~]# runuser -s /bin/bash -c /var/lib/bdii/gip/plugin/glite-info-dynamic-ce -- ldap
dn: GlueCEUniqueID=cream-30.pd.infn.it:8443/cream-pbs-cert,mds-vo-name=resource,o=grid
GlueCEInfoLRMSVersion: 2.5.7
GlueCEInfoTotalCPUs: 14
GlueCEPolicyAssignedJobSlots: 14
GlueCEStateFreeCPUs: 14
GlueCEPolicyMaxObtainableCPUTime: 2880
GlueCEPolicyMaxWallClockTime: 4320
GlueCEPolicyMaxObtainableWallClockTime: 4320
GlueCEStateStatus: Production

dn: GlueCEUniqueID=cream-30.pd.infn.it:8443/cream-pbs-creamtest1,mds-vo-name=resource,o=grid
GlueCEInfoLRMSVersion: 2.5.7
GlueCEInfoTotalCPUs: 14
GlueCEPolicyAssignedJobSlots: 14
GlueCEStateFreeCPUs: 14
GlueCEPolicyMaxObtainableCPUTime: 2880
GlueCEPolicyMaxWallClockTime: 4320

```

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GlueCEPolicyMaxObtainableWallClockTime: 4320
GlueCEStateStatus: Production

dn: GlueCEUniqueID=cream-30.pd.infn.it:8443/cream-pbs-creamtest2,mds-vo-name=resource,o=grid
GlueCEInfoLRMSVersion: 2.5.7
GlueCEInfoTotalCPUs: 14
GlueCEPolicyAssignedJobSlots: 14
GlueCEStateFreeCPUs: 14
GlueCEPolicyMaxObtainableCPUTime: 2880
GlueCEPolicyMaxWallClockTime: 4320
GlueCEPolicyMaxObtainableWallClockTime: 4320
GlueCEStateStatus: Production

dn: GLUE2ManagerId=cream-30.pd.infn.it_ComputingElement_Manager,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ManagerProductVersion: 2.5.7
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

dn: GLUE2ShareID=creamtest1_dteam_cream-30.pd.infn.it_ComputingElement,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ComputingShareMaxCPUTime: 172800
GLUE2ComputingShareDefaultWallTime: 259200
GLUE2ComputingShareMaxWallTime: 259200
GLUE2ComputingShareServingState: production
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

dn: GLUE2ShareID=cert_dteam_cream-30.pd.infn.it_ComputingElement,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ComputingShareMaxCPUTime: 172800
GLUE2ComputingShareDefaultWallTime: 259200
GLUE2ComputingShareMaxWallTime: 259200
GLUE2ComputingShareServingState: production
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

dn: GLUE2ShareID=creamtest1_testers.eu-emi.eu_cream-30.pd.infn.it_ComputingElement,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ComputingShareMaxCPUTime: 172800
GLUE2ComputingShareDefaultWallTime: 259200
GLUE2ComputingShareMaxWallTime: 259200
GLUE2ComputingShareServingState: production
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

dn: GLUE2ShareID=creamtest2_testers.eu-emi.eu_cream-30.pd.infn.it_ComputingElement,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ComputingShareMaxCPUTime: 172800
GLUE2ComputingShareDefaultWallTime: 259200
GLUE2ComputingShareMaxWallTime: 259200
GLUE2ComputingShareServingState: production
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

dn: GLUE2ShareID=creamtest2_dteam_cream-30.pd.infn.it_ComputingElement,GLUE2ServiceID=cream-30.pd.infn.it
GLUE2ComputingShareMaxCPUTime: 172800
GLUE2ComputingShareDefaultWallTime: 259200
GLUE2ComputingShareMaxWallTime: 259200
GLUE2ComputingShareServingState: production
GLUE2EntityCreationTime: 2013-10-25T08:25:29Z

Regression Tests

Issue CREAM-119 FIXED

- Two nodes available with 7 CPUs per node:

```
[root@cream-30 ~]# pbsnodes
cream-wn-030.pn.pd.infn.it
  state = free
  np = 7
  properties = lcgpro
  ntype = cluster
  status = rectime=1382689319,varattr=,jobs=,state=free,netload=8515393750,gres=,loadave=0.00,
  gpus = 0
```

```
cream-wn-038.pn.pd.infn.it
  state = free
  np = 7
  properties = lcgpro
  ntype = cluster
  status = rectime=1382689310,varattr=,jobs=,state=free,netload=8504265010,gres=,loadave=0.00,
  gpus = 0
```

```
[root@cream-30 ~]# runuser -s /bin/bash -c /var/lib/bdii/gip/plugin/glite-info-dynamic-ce -- ldap
GlueCEInfoTotalCPUs: 14
GlueCEInfoTotalCPUs: 14
GlueCEInfoTotalCPUs: 14
```

- Setting a node as "down,offline":

```
[root@cream-30 ~]# qmgr -c 'set node cream-wn-038.pn.pd.infn.it state="down,offline"'
You have new mail in /var/spool/mail/root
[root@cream-30 ~]# pbsnodes
cream-wn-030.pn.pd.infn.it
  state = free
  np = 7
  properties = lcgpro
  ntype = cluster
  status = rectime=1382689093,varattr=,jobs=,state=free,netload=8515298529,gres=,loadave=0.00,
  gpus = 0
```

```
cream-wn-038.pn.pd.infn.it
  state = down,offline
  np = 7
  properties = lcgpro
  ntype = cluster
  status = rectime=1382689088,varattr=,jobs=,state=free,netload=8504174892,gres=,loadave=0.00,
  gpus = 0
```

```
[root@cream-30 ~]# runuser -s /bin/bash -c /var/lib/bdii/gip/plugin/glite-info-dynamic-ce -- ldap
GlueCEInfoTotalCPUs: 7
GlueCEInfoTotalCPUs: 7
GlueCEInfoTotalCPUs: 7
```

Glue compliance tests PASSED

***** GLUE2

```
[bertocco@cert-24 ~]$ glue-validator -H cream-30.pd.infn.it -p 2170 -b o=glue -s general -g glue
WARNING - errors 0, warnings 1, info 0 | errors=0;warnings=1;info=0
```

```
W037 Description: Wrong type
W037 Affected DN: GLUE2EndpointID=cream-30.pd.infn.it_ComputingElement_org.glite.ce.ApplicationPublisher
                  GLUE2ServiceID=cream-30.pd.infn.it_ComputingElement
                  GLUE2GroupID=resource
                  o=glue
W037 Affected attribute: GLUE2EndpointInterfaceName
W037 Published value: ['org.glite.ce.ApplicationPublisher']
W037 Additional information: Expected type is InterfaceName_t
```

***** GLUE1

```
[bertocco@cert-24 ~]$ glue-validator -H cert-42.pd.infn.it -p 2170 -b o=grid -s general -g glue1
WARNING - errors 0, warnings 1, info 0 | errors=0;warnings=1;info=0
```

```
W037 Description: Wrong type
W037 Affected DN: GlueServiceUniqueID=cert-42.pd.infn.it_org.glite.ce.CREAM_2101787807
                  Mds-Vo-name=resource
```

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o=grid
W037 Affected attribute: GlueServiceStartTime
W037 Published value: ['1970-01-01T01:00:00+01:00']
W037 Additional information: Expected type is DateTime_t

-- SaraBertocco - 2013-10-18

This topic: IGIRelease > EMI3CREAMIssue163SL5

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