

Testing report: IGIRTC #63

Summary

- Product: **WN v. 2.0.0**
- Release Task: Task #23323
- ETICS Subsystem Configuration Name: **
- VCS Tag:
- EMI Major Release: EMI 2 (Matterhorn)
- Platform: SL5, SL6 epel
- Author: Sara Bertocco
- Testing report: TBD
- Certification report: TBD
- Date: 16st April 2012
- Outcome: In certification

SL5

Deployment tests

Clean Installation

Installation log file

Simple functionality test:

- submit a job in the cluster

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-submit -a -r cert-09.cnaf.infn.it:8443 https://cert-09.cnaf.infn.it:8443/CREAM429206787
```

- verify run on installed job (emitestbed11)

```
[root@cert-09 ~]# qstat -a
demo; type=BATCH; [ENABLED]; pri=100
4 run; 1 wait;
```

	REQUEST NAME	REQUEST ID	USER	STATE
1:	cream_017253	9637	tst22	RUNNING
2:	cream_132200	9638	tst22	RUNNING
3:	cream_538619	9639	tst22	RUNNING
4:	cream_077841	9647	tst22	RUNNING
5:	cream_429206	9650	tst18	WAITING

```
[root@cert-09 ~]# bjobs -l 9650
```

```
Job <9650>, Job Name <cream_429206787>, User <tst18>, Project <default>, Status <RUN>, Queue <demo>, Command <#!/bin/bash;# LSF job wrapper generated by lsf_submit.sh;# on Mon Apr 16 17:41:18 CEST 2012;## LSF directives:;#BSUB -L /bin/bash;#BSUB -J cream_429206787;#BSUB -q demo;#BSUB -n 1;#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/CREAM429206787_jobWrapper.sh > CREAM429206787_jobWrapper.sh.61018.11396.1334590878";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/proxy/3624d0eb86997d7d5652
```

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```
e3bb2d2b3c8bb13ca079_15105891614319 > cream_429206787.proxy";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/StandardOutput < out_cream_429206787_StandardOutput";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/StandardError < err_cream_429206787_StandardError"; # Check whether we need to move to the LSF original CWD;if [ -d "$CERN_STARTER_ORIGINAL_CWD" ]; then; cd $CERN_STARTER_ORIGINAL_CWD;fi;old_home=`pwd`;new_home=${old_home}/home_cream_429206787;mkdir $new_home;trap 'wait $job_pid; cd $old_home; rm -rf $new_home; exit 255' 1 2 3 15 24;trap 'wait $job_pid; cd $old_home; rm -rf $new_home' 0;# Copy into new home any shared input sandbox file;# Move into new home any relative input sandbox file;mv "CREAM429206787_jobWrapper.sh.61018.11396.1334590878" "$new_home/CREAM429206787_jobWrapper.sh" &> /dev/null;mv "cream_429206787.proxy" "$new_home/cream_429206787.proxy" &> /dev/null;export HOME=$new_home;cd $new_home;# Resetting proxy to local position;export X509_USER_PROXY=$new_home/cream_429206787.proxy; # Command to execute;if [ ! -x ./CREAM429206787_jobWrapper.sh ]; then chmod u+x ./CREAM429206787_jobWrapper.sh; fi;if [ -x ${GLITE_LOCATION:-/opt/glite}/libexec/jobwrapper ];then;${GLITE_LOCATION:-/opt/glite}/libexec/jobwrapper ./CREAM429206787_jobWrapper.sh > "out_cream_429206787_StandardOutput" 2> "err_cream_429206787_StandardError" & elif [ -x /opt/lcg/libexec/jobwrapper ];then;/opt/lcg/libexec/jobwrapper ./CREAM429206787_jobWrapper.sh > "out_cream_429206787_StandardOutput" 2> "err_cream_429206787_StandardError" & elif [ -x $BLAH_AUX_JOBWRAPPER ];then;$BLAH_AUX_JOBWRAPPER ./CREAM429206787_jobWrapper.sh > "out_cream_429206787_StandardOutput" 2> "err_cream_429206787_StandardError" & else;$new_home/CREAM429206787_jobWrapper.sh > "out_cream_429206787_StandardOutput" 2> "err_cream_429206787_StandardError" & fi;job_pid=$!; # Wait for the user job to finish;wait $job_pid;user_retcode=$?; # Move all relative outputs and paths out of temp home;cd $new_home;mv "out_cream_429206787_StandardOutput" "$old_home/out_cream_429206787_StandardOutput" 2> /dev/null;mv "err_cream_429206787_StandardError" "$old_home/err_cream_429206787_StandardError" 2> /dev/null;# Move any remapped outputs and file to shared directories; # Remove the staged files, if any;rm "CREAM429206787_jobWrapper.sh" 2> /dev/null;rm "cream_429206787.proxy" 2> /dev/null;cd $old_home; exit $user_retcode>
```

```
Mon Apr 16 17:41:19: Submitted from host <cert-09>, CWD <${HOME}>, Input File </dev/null>, Output File </dev/null>, Copy Files "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/CREAM429206787_jobWrapper.sh > CREAM429206787_jobWrapper.sh.61018.11396.1334590878" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/proxy/3624d0eb86997d7d5652e3bb2d2b3c8bb13ca079_15105891614319 > cream_429206787.proxy" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/StandardOutput < out_cream_429206787_StandardOutput" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/42/CREAM429206787/StandardError < err_cream_429206787_StandardError", Login Shell </bin/bash>;
```

```
Mon Apr 16 17:41:24: Started on <emittestbed11>, Execution Home </home/tst18>, Execution CWD </home/tst18>;
```

```
Mon Apr 16 17:41:24: Resource usage collected.
```

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MEM: 1 Mbytes; SWAP: 28 Mbytes; NTHREAD: 2
PGID: 5370; PIDs: 5380 5370

SCHEDULING PARAMETERS:

	r15s	r1m	r15m	ut	pg	io	ls	it	tmp	swp	mem
loadSched	-	-	-	-	-	-	-	-	-	-	-
loadStop	-	-	-	-	-	-	-	-	-	-	-

- verify the job finish correctly

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-status https://cert-09.cnaf.infn.it:
***** JobID=[https://cert-09.cnaf.infn.it:8443/CREAM429206787]
  Status      = [DONE-OK]
  ExitCode    = [0]
```

Upgrade Installation

- Update log SL5

Upgrade failed with:

```
Error: Missing Dependency: libdcap is needed by package libdcap-devel-2.47.5-1.x86_64 (installed)
```

Patch applied:

```
rpm -e libdcap-devel-2.47.5-1.x86_64 emi-wn-1.0.0-0.s15.x86_64; rpm -e gfal-py26-1.11.19-3.s15.x8
```

After that upgrade and configuration OK.

Simple functionality test:

- Submit a job in the cluster

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-submit -a -r emi-demo08.cnaf.infn.it
https://emi-demo08.cnaf.infn.it:8443/CREAM511059806
```

- Verify the job runs in the installed node

```
[root@cert-36 conf]# qstat -a
demo; type=BATCH; [ENABLED]; pri=100
1 run; 0 wait;
```

	REQUEST NAME	REQUEST ID	USER	STATE
1:	cream_511059	9418	tst27	RUNNING

```
[root@cert-36 conf]# bjobs -l 9418
```

```
Job <9418>, Job Name <cream_511059806>, User <tst27>, Project <default>, Status
<RUN>, Queue <demo>, Command <#!/bin/bash;# LSF job wrapper
generated by lsf_submit.sh;# on Wed Apr 18 14:58:54 CES
T 2012;## LSF directives:;#BSUB -L /bin/bash;#BSUB -J cre
am_511059806;#BSUB -q demo;#BSUB -n 1;#BSUB -f "/var/cream
_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Cer
tificate_O_INFNC_IT_testers_eu_emi_eu_Role_NULL_Capabilit
y_NULL_tst27/51/CREAM511059806/CREAM511059806_jobWrapper.s
h > CREAM511059806_jobWrapper.sh.61027.6951.1334753934";#B
SUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Pado
va_OU_Personal_Certificate_O_INFNC_IT_testers_eu_emi_eu_R
```

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```
ole_NULL_Capability_NULL_tst27/proxy/a893b66fe8fa8a2ef1c8d
0ba6b1410fc53896bd4_17980099141579 > cream_511059806.proxy
";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_
Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_
eu_Role_NULL_Capability_NULL_tst27/51/CREAM511059806/Stand
ardOutput < out_cream_511059806_StandardOutput";#BSUB -f "
/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Pe
rsonal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL
_Capability_NULL_tst27/51/CREAM511059806/StandardError < e
rr_cream_511059806_StandardError"; # Check whether we need
to move to the LSF original CWD::if [ -d "$CERN_STARTER_O
RIGINAL_CWD" ]; then; cd $CERN_STARTER_ORIGINAL_CWD;fi;
old_home=`pwd`;new_home=${old_home}/home_cream_511059806;m
kdir $new_home;trap 'wait $job_pid; cd $old_home; rm -rf $
new_home; exit 255' 1 2 3 15 24;trap 'wait $job_pid; cd $o
ld_home; rm -rf $new_home' 0;# Copy into new home any shar
ed input sandbox file;# Move into new home any relative in
put sandbox file;mv "CREAM511059806_jobWrapper.sh.61027.69
51.1334753934" "$new_home/CREAM511059806_jobWrapper.sh" &>
/dev/null;mv "cream_511059806.proxy" "$new_home/cream_511
059806.proxy" &> /dev/null;export HOME=$new_home;cd $new_h
ome;# Resetting proxy to local position;export X509_USER_P
ROXY=$new_home/cream_511059806.proxy; # Command to execute
::if [ ! -x ./CREAM511059806_jobWrapper.sh ]; then chmod u
+x ./CREAM511059806_jobWrapper.sh; fi;if [ -x ${GLITE_LOCA
TION:-/opt/glite}/libexec/jobwrapper ];then;${GLITE_LOCATI
ON:-/opt/glite}/libexec/jobwrapper ./CREAM511059806_jobWra
pper.sh > "out_cream_511059806_StandardOutput" 2> "err_cr
eam_511059806_StandardError" & elif [ -x /opt/lcg/libexec/
jobwrapper ];then;/opt/lcg/libexec/jobwrapper ./CREAM51105
9806_jobWrapper.sh > "out_cream_511059806_StandardOutput"
2> "err_cream_511059806_StandardError" & elif [ -x $BLAH_
AUX_JOBWRAPPER ];then;$BLAH_AUX_JOBWRAPPER ./CREAM51105980
6_jobWrapper.sh > "out_cream_511059806_StandardOutput" 2>
"err_cream_511059806_StandardError" & else;$new_home/CREA
M511059806_jobWrapper.sh > "out_cream_511059806_StandardO
utput" 2> "err_cream_511059806_StandardError" & fi;job_pid
=$!; # Wait for the user job to finish;wait $job_pid;user_
retcode=$?; # Move all relative outputsand paths out of te
mp home;cd $new_home;mv "out_cream_511059806_StandardOutpu
t" "$old_home/out_cream_511059806_StandardOutput" 2> /dev/
null;mv "err_cream_511059806_StandardError" "$old_home/err
_cream_511059806_StandardError" 2> /dev/null;# Move any re
mapped outputsand file to shared directories; # Remove the
staged files, if any;rm "CREAM511059806_jobWrapper.sh" 2>
/dev/null;rm "cream_511059806.proxy" 2> /dev/null;cd $old
_home; exit $user_retcode>
```

Wed Apr 18 14:58:55: Submitted from host <emi-demo08>, CWD <\$HOME>, Input File </dev/null>, Output File </dev/null>, Copy Files "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst27/51/CREAM511059806/CREAM511059806_jobWrapper.sh > CREAM511059806_jobWrapper.sh.61027.6951.1334753934" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst27/proxy/a893b66fe8fa8a2ef1c8d0ba6b1410fc53896bd4_17980099141579 > cream_511059806.proxy" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst27/51/CREAM511059806/StandardOutput < out_cream_511059806_StandardOutput" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst27/51/CREAM511059806/StandardError < err_cream_511059806_StandardError", Login Shell </bin/bash>;

Wed Apr 18 14:58:59: Started on <emitestbed14>, Execution Home </home/tst27>, Execution CWD </home/tst27>;

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Wed Apr 18 14:59:17: Resource usage collected.

MEM: 1 Mbytes; SWAP: 28 Mbytes; NTHREAD: 1
PGID: 32125; PIDs: 32125

SCHEDULING PARAMETERS:

	r15s	r1m	r15m	ut	pg	io	ls	it	tmp	swp	mem
loadSched	-	-	-	-	-	-	-	-	-	-	-
loadStop	-	-	-	-	-	-	-	-	-	-	-

* Verify the job finish correctly

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-status https://emi-demo08.cnaf.infn.it
```

```
***** JobID=[https://emi-demo08.cnaf.infn.it:8443/CREAM511059806]
  Status      = [DONE-OK]
  ExitCode    = [0]
```

Unit Tests

System tests

Functionality tests

Regression tests

SL6

Deployment tests

Clean Installation

Installation log file

sIMPLE FUNCTIONALITY TEST:

- Submit a job in the cluster

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-status https://cert-09.cnaf.infn.it:
```

```
***** JobID=[https://cert-09.cnaf.infn.it:8443/CREAM159038044]
  Status      = [REALLY-RUNNING]
```

- Verify the job runs in the updated node (emitestbed32)

```
[root@cert-09 ~]# qstat -a
demo; type=BATCH; [ENABLED]; pri=100
2 run; 0 wait;
```

	REQUEST NAME	REQUEST ID	USER	STATE
1:	cream_939350	9575	tst18	UNKNOWN
2:	cream_159038	9584	tst18	RUNNING

```
[root@cert-09 ~]# bjobs -l 9584
```

```
Job <9584>, Job Name <cream_159038044>, User <tst18>, Project <default>, Status  
<RUN>, Queue <demo>, Command <#!/bin/bash;# LSF job wrapper  
er generated by lsf_submit.sh;# on Mon Apr 16 16:07:25 CES
```

Unit Tests

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```
T 2012;## LSF directives:;#BSUB -L /bin/bash;#BSUB -J cream_159038044;#BSUB -q demo;#BSUB -n 1;#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/15/CREAM159038044/CREAM159038044_jobWrapper.sh > CREAM159038044_jobWrapper.sh.61018.24658.1334585245";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/proxy/6eb8f01c502757adlea890b652c6d1bc4434fe77_15105891614319 > cream_159038044.proxy";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/15/CREAM159038044/StandardOutput < out_cream_159038044_StandardOutput";#BSUB -f "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/15/CREAM159038044/StandardError < err_cream_159038044_StandardError"; # Check whether we need to move to the LSF original CWD:;if [ -d "$CERN_STARTER_ORIGINAL_CWD" ]; then; cd $CERN_STARTER_ORIGINAL_CWD;fi;old_home=`pwd`;new_home=${old_home}/home_cream_159038044;mkdir $new_home;trap 'wait $job_pid; cd $old_home; rm -rf $new_home; exit 255' 1 2 3 15 24;trap 'wait $job_pid; cd $old_home; rm -rf $new_home' 0;# Copy into new home any shared input sandbox file;mv "CREAM159038044_jobWrapper.sh.61018.24658.1334585245" "$new_home/CREAM159038044_jobWrapper.sh" && /dev/null;mv "cream_159038044.proxy" "$new_home/cream_159038044.proxy" && /dev/null;export HOME=$new_home;cd $new_home;# Resetting proxy to local position;export X509_USER_PROXY=$new_home/cream_159038044.proxy; # Command to execute:;if [ ! -x ./CREAM159038044_jobWrapper.sh ]; then chmod u+x ./CREAM159038044_jobWrapper.sh; fi;if [ -x ${GLITE_LOCATION:-/opt/glite}/libexec/jobwrapper ];then;${GLITE_LOCATION:-/opt/glite}/libexec/jobwrapper ./CREAM159038044_jobWrapper.sh > "out_cream_159038044_StandardOutput" 2> "err_cream_159038044_StandardError" & elif [ -x /opt/lcg/libexec/jobwrapper ];then;/opt/lcg/libexec/jobwrapper ./CREAM159038044_jobWrapper.sh > "out_cream_159038044_StandardOutput" 2> "err_cream_159038044_StandardError" & elif [ -x $BLAH_AUX_JOBWRAPPER ];then;$BLAH_AUX_JOBWRAPPER ./CREAM159038044_jobWrapper.sh > "out_cream_159038044_StandardOutput" 2> "err_cream_159038044_StandardError" & else;$new_home/CREAM159038044_jobWrapper.sh > "out_cream_159038044_StandardOutput" 2> "err_cream_159038044_StandardError" & fi;job_pid=$!; # Wait for the user job to finish;wait $job_pid;user_retcode=$?; # Move all relative outputs and paths out of temp home;cd $new_home;mv "out_cream_159038044_StandardOutput" "$old_home/out_cream_159038044_StandardOutput" 2> /dev/null;mv "err_cream_159038044_StandardError" "$old_home/err_cream_159038044_StandardError" 2> /dev/null;# Move any remapped outputs and file to shared directories; # Remove the staged files, if any;rm "CREAM159038044_jobWrapper.sh" 2> /dev/null;rm "cream_159038044.proxy" 2> /dev/null;cd $old_home; exit $user_retcode
```

Mon Apr 16 16:07:26: Submitted from host <cert-09>, CWD <\${HOME}>, Input File </dev/null>, Output File </dev/null>, Copy Files "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/15/CREAM159038044/CREAM159038044_jobWrapper.sh > CREAM159038044_jobWrapper.sh.61018.24658.1334585245" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/proxy/6eb8f01c502757adlea890b652c6d1bc4434fe77_15105891614319 > cream_159038044.proxy" "/var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_testers_eu_emi_eu_Role_NULL_Capab

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```
ility_NULL_tst18/15/CREAM159038044/StandardOutput < out_cr
eam_159038044_StandardOutput" "/var/cream_sandbox/testers/
CN_Sara_Bertocco_L_Padova_OU_Personal_Certificate_O_INFN_C
_IT_testers_eu_emi_eu_Role_NULL_Capability_NULL_tst18/15/C
REAM159038044/StandardError < err_cream_159038044_Standard
Error", Login Shell </bin/bash>;
Mon Apr 16 16:07:30: Started on <emitestbed32>, Execution Home </home/tst18>, E
xecution CWD </home/tst18>;
Mon Apr 16 16:07:48: Resource usage collected.
MEM: 1 Mbytes; SWAP: 33 Mbytes; NTHREAD: 1
PGID: 29783; PIDs: 29783
```

SCHEDULING PARAMETERS:

	r15s	r1m	r15m	ut	pg	io	ls	it	tmp	swp	mem
loadSched	-	-	-	-	-	-	-	-	-	-	-
loadStop	-	-	-	-	-	-	-	-	-	-	-

- Verify the job finish correctly

```
[bertocco@cream-12 cream_regression_testsuite]$ glite-ce-job-status https://cert-09.cnaf.infn.it:
```

```
***** JobID=[https://cert-09.cnaf.infn.it:8443/CREAM159038044]
  Status      = [DONE-OK]
  ExitCode    = [0]
```

Unit Tests

System tests

Functionality tests

Regression tests

-- SaraBertocco - 2012-04-16

This topic: IGIRelease > Task23323

Topic revision: r3 - 2012-04-18 - SaraBertocco



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