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# Devel03 Work Log

## Bartch System:

- Torque 2.3.6

## Queues:

- creamtest1
- creamtest2

## Work Nodes:

- 3 WNs

### 2011-03-25 (Ale)

- Update kernel
- Installed puppet

### 2011-01-25 (Ale)

- Migration of the dteam VO from CERN to EGI VOMS following these instructions

### 2010-12-28 (Ale)

- update:

cleanup-grid-accounts	noarch	1.1.2-1	ETICS-name-patch_4543_1	5.8 k
glite-CREAM	i386	3.1.27-2.slc4	ETICS-name-patch_4543_1	4.8 k
glite-ce-blahp	i386	1.14.4-3.slc4	ETICS-name-patch_4543_1	1.2 M
glite-ce-ce-plugin	noarch	1.12.2-1	ETICS-name-patch_4543_1	17 k
glite-ce-cream	noarch	1.12.4-2	ETICS-name-patch_4543_1	5.2 M
glite-ce-cream-utils	i386	1.0.2-1.slc4	ETICS-name-patch_4543_1	15 k
glite-ce-job-plugin	noarch	1.12.2-1	ETICS-name-patch_4543_1	25 k
glite-ce-monitor	noarch	1.12.3-1	ETICS-name-patch_4543_1	4.1 M
glite-info-provider-release	noarch	1.0.2-1	ETICS-name-patch_4543_1	3.0 k
glite-lb-common	i386	6.1.4-1.slc4	ETICS-name-patch_4543_1	655 k
glite-lb-logger	i386	1.4.12-1.slc4	ETICS-name-patch_4543_1	47 k
glite-security-trustmanager	noarch	2.5.5-3_GL31Special	ETICS-name-patch_4543_1	5.4
glite-security-util-java	noarch	2.9.1-1	ETICS-name-patch_4543_1	337 k
glite-security-voms-api-c	i386	1.9.10-12.slc4	ETICS-name-patch_4543_1	4.0 M
glite-security-voms-api-cpp	i386	1.9.10-12.slc4	ETICS-name-patch_4543_1	4.8 M
glite-security-voms-clients	i386	1.9.10-12.slc4	ETICS-name-patch_4543_1	862 k
glite-version	noarch	3.1.2-1	ETICS-name-patch_4543_1	4.4 k
glite-yaim-core	noarch	4.0.13-2	ETICS-name-patch_4543_1	124 k
glite-yaim-cream-ce	noarch	4.1.1-5	ETICS-name-patch_4543_1	29 k
gridsite-shared	i386	1.1.21-1.slc4	ETICS-name-patch_4543_1	76 k

- Updating batch system:

glite-TORQUE_server	i386	3.1.10-0	glite-TORQUE_server	2.8 k
glite-TORQUE_utils	i386	3.1.13-0	glite-TORQUE_utils	3.1 k
glite-yaim-torque-server	noarch	4.0.4-1	glite-TORQUE_server	5.3 k
glite-yaim-torque-utils	noarch	4.0.4-1	glite-TORQUE_utils	7.2 k
lcg-info-dynamic-pbs	noarch	1.0.13-1	glite-TORQUE_utils	3.4 k
torque	i386	2.3.6-1cri.slc4	glite-TORQUE_utils	92 k
torque-client	i386	2.3.6-1cri.slc4	glite-TORQUE_utils	116 k

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```
torque-server          i386          2.3.6-1cri.slc4  glite-TORQUE_server  116 k
Installing for dependencies:
torque-devel          i386          2.3.6-1cri.slc4  glite-TORQUE_utils   99 k
torque-docs          i386          2.3.6-1cri.slc4  glite-TORQUE_utils  458 k
torque-drmaa         i386          2.3.6-1cri.slc4  glite-TORQUE_utils   41 k
torque-drmaa-docs    i386          2.3.6-1cri.slc4  glite-TORQUE_utils  151 k
```

### 2009-10-13 (Ale)

- Switch to PBS

### 2009-04-20 (Paolo)

- Updating:

glite-ce-blahp	i386	1.12.3-6.slc4	Cream-PreCert
glite-ce-cream	noarch	1.11.1-6	Cream-PreCert
glite-ce-job-plugin	noarch	1.11.1-6	Cream-PreCert
glite-ce-ce-plugin	noarch	1.11.1-6	Cream-PreCert
glite-ce-monitor	noarch	1.11.1-6	Cream-PreCert

- /opt/glite/yaim/bin/yaim -c -s ~/siteinfo/site-info.def -n creamCE -n LSF\_utils
- /opt/glite/yaim/bin/yaim -r -s ~/siteinfo/site-info.def -n creamCE -f config\_cream\_blparser

### 2009-04-06 (Paolo)

- Updating:

glite-ce-blahp	i386	1.12.3-5.slc4	Cream-PreCert
glite-ce-cream	noarch	1.11.1-5	Cream-PreCert
glite-ce-job-plugin	noarch	1.11.1-5	Cream-PreCert
glite-ce-ce-plugin	noarch	1.11.1-5	Cream-PreCert
glite-ce-monitor	noarch	1.11.1-5	Cream-PreCert
glite-yaim-cream-ce	noarch	4.0.8.0	Cream-PreCert
glite-info-provider-service	noarch	1.1.2-0	Cream-PreCert

- /opt/glite/yaim/bin/yaim -r -s ~/siteinfo/site-info.def -n creamCE -f config\_cream\_clean\_users
- /opt/glite/yaim/bin/yaim -c -s ~/siteinfo/site-info.def -n creamCE

### 2009-03-06 (Paolo)

- Updating:

glite-ce-blahp	i386	1.10.12-0.slc4	Cream-PreCert
glite-ce-cream	noarch	1.10.7-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.10.1-8	Cream-PreCert
glite-ce-ce-plugin	noarch	1.10.1-1	Cream-PreCert
glite-ce-monitor	noarch	1.10.1-1	Cream-PreCert

- /opt/glite/yaim/bin/yaim -c -s ~/siteinfo/site-info.def -n creamCE -n LSF\_utils
- /opt/glite/yaim/bin/yaim -r -s ~/siteinfo/site-info.def -n creamCE

### 2009-02-18 (Ale)

- Updating:

glite-ce-blahp	i386	1.10.11-0.slc4	Cream-PreCert
glite-ce-cream	noarch	1.10.6-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.10.1-7	Cream-PreCert

- /opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE -n LSF\_utils

**2009-01-27 (Elisabetta)**

- Updated to what is in the pre-certification repository:

glite-ce-cream	noarch	1.10.5-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.10.1-6	Cream-PreCert
glite-ce-blahp	i386	1.10.10-0.slc4	Cream-PreCert
glite-yaim-cream-ce	noarch	4.0.7-3	Cream-PreCert
glite-CREAM	i386	3.1.7-0	Cream-PreCert

**2009-01-26 (Elisabetta)**

- Installed machine from scratch
- installed with the new version of cream following the instructions at <http://igrelease.forge.cnaf.infn.it/doku.php?id=doc:guides:devel:install-cream31-devel>

**2008-12-03 (Paolo)**

- yum update glite-ce-blahp glite-ce-cream glite-ce-job-plugin
- Updating:

glite-ce-blahp	i386	1.10.9-1.slc4	Cream-PreCert
glite-ce-cream	noarch	1.10.3-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.10.1-4	Cream-PreCert

- /opt/glite/yaim/bin/yaim -r -s /root/siteinfo/site-info.def -n creamCE -f config\_cream\_clean\_users
- /opt/glite/yaim/bin/yaim -c -s /root/siteinfo/site-info.def -n creamCE

**2008-11-12 (Sara)**

- yum update
- Updating:

Package	Arch	Version	Repository
glite-yaim-cream-ce	noarch	4.0.7-1	Cream-PreCert

- yum install lcg-info-provider-software -y; yum install lcg-info-dynamic-software -y
- /opt/glite/yaim/bin/yaim -c -s /root/siteinfo/site-info.def -n creamCE

**2008-10-10 (Sara)**

- Updating:

glite-ce-cream	noarch	1.9.6-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.9.0-6	Cream-PreCert
glite-ce-monitor	noarch	1.9.3-1	Cream-PreCert

**2008-10-06 (Sara)**

- Updating:

glite-ce-blahp	i386	1.10.6-0.slc4	Cream-PreCert
glite-ce-ce-plugin	noarch	1.9.0-3	Cream-PreCert
glite-ce-cream	noarch	1.9.5-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.9.0-5	Cream-PreCert
glite-ce-monitor	noarch	1.9.3-0	Cream-PreCert
glite-yaim-cream-ce	noarch	4.0.6-0	Cream-PreCert

- yum clean all

- yum update
- /opt/glite/yaim/bin/yaim -c -s /root/siteinfo/site-info.def -n creamCE

**2008-09-05 (Ale)**

- Updating:

glite-ce-ce-plugin	noarch	1.9.0-2	Cream-PreCert
glite-ce-cream	noarch	1.9.4-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.9.0-4	Cream-PreCert
glite-ce-monitor	noarch	1.9.2-0	Cream-PreCert
glite-yaim-cream-ce	noarch	4.0.5-0	Cream-PreCert
glite-security-glexec	i386	0.5.33-1.sl4	lcg-CE
glite-security-gsoap-plugin	i386	1.5.3-1.sl4	lcg-CE
vdt_globus_data_server	i386	VDT1.6.1x86_rhas_4-7	lcg-CE
vdt_globus_essentials	386	VDT1.6.1x86_rhas_4-7	lcg-CE

- stopped tomcat and the blparser
- yum clean all
- yum update
- Set CREAM\_CE\_STATE=CREAMPreCertTests in /opt/glite/yaim/defaults/glite-creamce.pre
- /opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE
- /opt/glite/yaim/bin/yaim -r -s site-info.def -n creamCE -f config\_cream\_blparser
- service tomcat5 restart

- Add this line to the /opt/glite/etc/blah.config file:

. /data/lsf/conf/profile.lsf

**2008-07-14 (Elisabetta)**

- Re-installed the machine with CREAM, after it was scratched and re-installed with SL4:
  - ◆ Followed the instructions at <http://igrelease.forge.cnaf.infn.it/doku.php?id=doc:guides:devel:install-cream31-devel> using the pre-certification repository at <http://devel12.cnaf.infn.it:7444/repository/cream-precert/>

**2008-06-09 (Ale)**

- After the "tomcat" update ( to version 5.5.26-1) we need a workaround to make it working:
  - ◆ cp /usr/share/java/commons-logging-1.1.jar /usr/share/tomcat5/bin/commons-logging-api-1.1.1.jar

**2008-06-06 (Ale)**

- Updating

glite-security-lcmapi-plugins-verify-proxy	i386	1.2.9-1.sl4	patch1830
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**2008-06-05 (Ale)**

- Use cream-04.pd.infn.it as site-bdii, it uses GlueCEStateStatus = CREAMPreCertTests

**2008-06-05 (Ale)**

- Updating:

cert-glite-LSF_utils	i386	3.1.4-0	Lcg-CE-cert
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glite-security-glexec	i386	0.5.30-1.sl4	patch1732
glite-yaim-core	noarch	4.0.4-2	Lcg-CE-cert
lcg-vomscerts	noarch	5.0.0-1	Lcg-CE-cert

**2008-05-30 (Ale)**

- Added testing VOs

**2008-05-29 (Ale)**

- Update:

glite-security-glexec	i386	0.5.29-2.sl4	patch1732
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**20-08-05-28 (Ale)**

- Update:

glite-security-voms-clients	i386	1.8.3-4.sl4	patch1838
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**2008-05-26 (Ale)**

- Update:

glite-ce-ce-plugin	noarch	1.9.0-0	Cream-PreCert
glite-ce-cream	noarch	1.9.0-0	Cream-PreCert
glite-ce-job-plugin	noarch	1.9.0-0	Cream-PreCert
glite-ce-monitor	noarch	1.9.1-1	Cream-PreCert
glite-security-glexec	i386	0.5.27-2.sl4	patch1732
glite-security-lcas	i386	1.3.7-2.sl4	patch1830
glite-security-lcas-interface	i386	1.3.6-3.sl4	patch1830
glite-security-lcas-lcmapi-gt4-interface	i386	0.0.14-2.sl4	patch1830
glite-security-lcas-plugins-basic	i386	1.3.2-3.sl4	patch1830
glite-security-lcas-plugins-check-executable	i386	1.2.1-3.sl4	patch1830
glite-security-lcas-plugins-voms	i386	1.3.4-5.sl4	patch1830
glite-security-lcmapi	i386	1.4.3-4.sl4	patch1830
glite-security-lcmapi-plugins-basic	i386	1.3.8-2.sl4	patch1830
glite-security-lcmapi-plugins-verify-proxy	i386	1.2.8-4.sl4	patch1830
glite-security-lcmapi-plugins-voms	i386	1.3.7-5.sl4	patch1830
glite-security-voms-api-c	i386	1.8.3-4.sl4	patch1838
glite-security-voms-api-cpp	i386	1.8.3-4.sl4	patch1838

**2008-05-21 (Ale)**

- Problem:

Job fails with error: **BLAH error: + submission command failed (exit code = 1) N/A (jobId = CREAM....)**

In the catalina.out log it is written this error message: *ls\_initdebug: Unable to open file lsf.conf*

- Solution:

Add this line to the /opt/glite/etc/blah.config file:

```
./data/lsf/conf/profile.lsf
```

**2008-06-05 (Ale)**

**2008-05-20 (Ale)**

- Updated to the latest CREAM patch delivered to SA3 (#1755)

cert-glite-cream-CE	i386	3.1.0-14	cert-glite-cream-CE
glite-apel-core	noarch	2.0.9-8	Lcg-CE-cert
glite-apel-lsf	noarch	2.0.8-4	Lcg-CE-cert
glite-apel-pbs	noarch	2.0.5-2	Lcg-CE-cert
glite-apel-publisher	noarch	2.0.9-4	Lcg-CE-cert
glite-apel-sge	noarch	2.0.6-2	Lcg-CE-cert
glite-ce-blahp	i386	1.10.3-0.sl4	cert-glite-cream-CE
glite-ce-ce-plugin	noarch	1.8.1-1	cert-glite-cream-CE
glite-ce-cream	noarch	1.8.4-0	cert-glite-cream-CE
glite-ce-job-plugin	noarch	1.8.2-1	cert-glite-cream-CE
glite-ce-monitor	noarch	1.8.2-0	cert-glite-cream-CE
glite-lb-client	i386	3.1.5-1.sl4	Lcg-CE-cert
glite-security-trustmanager	noarch	1.8.16-1	Lcg-CE-cert
glite-security-voms-api-c	i386	1.8.3-3.sl4	Lcg-CE-cert
glite-security-voms-api-cpp	i386	1.8.3-3.sl4	Lcg-CE-cert
glite-security-voms-clients	i386	1.8.3-3.sl4	Lcg-CE-cert
lcg-vomscerts	noarch	4.9.0-1	Lcg-CE-cert

- Installing for dependencies:

glite-security-lcas-plugins-voms	i386	1.3.4-3.sl4	Lcg-CE-cert
glite-security-lcmads	i386	1.4.2-1.sl4	Lcg-CE-cert
glite-security-lcmads-plugins-voms	i386	1.3.7-3.sl4	Lcg-CE-cert

- Run `'/opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE'`

**2008-04-16 (Elisabetta)**

- Updated to the latest CREAM patch delivered to SA3 (#1755)
  - ◆ Set up the following yum repo:  
<http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/patches/1755/sl4/i386>
  - ◆ Run `'yum update'` and `'yum install cert-glite-cream-CE'`
  - ◆ Run `'/opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE'`

**2008-01-23 (Elisabetta)**

- Updated to last version of Cream following instructions at <http://igrelease.forge.cnaf.infn.it/doku.php?id=doc:guides:install-cream31-devel> and performing the following additional operations:
  - ◆ removed the following .rpms 'glite-security-lcmads glite-security-lcmads-interface glite-security-lcas glite-security-lcas-interface glite-security-lcmads-plugins-voms glite-security-lcas-plugins-voms glite-security-glexec' before running 'yum update'
  - ◆ installed the following lsf plugin: cert-glite-LSF\_utils-3.1.0-2.noarch.rpm, glite-yaim-lsf-utils-4.0.1-1.noarch.rpm, glite-apel-core-2.0.9-7.noarch.rpm and glite-apel-lsf-2.0.8-2.noarch.rpm Downloaded them from the repo <http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/patches/1571/sl4/i386/RPMS.1571/>
  - ◆ had to add the following variables ACCESS\_BY\_DOMAIN=false, CEMON\_HOST=devel03.cnaf.infn.it, CE\_PHYSCPU=1 and CE\_LOGCPU=1 to the site-info.def, otherwise the command

'/opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE -n glite-LSF\_utils' would not work

### 2007-11-16 (Elisabetta)

- Changed the value 'GlueCEStateStatus' from 'Production' to 'CREAM' by doing the following:
  - ◆ sed -i 's/Production/CREAM/' /opt/glite/libexec/glite-info-dynamic-lsf

### 2007-11-13 (Ale)

- To fix problem with the GIP use this rpm: perl-LDAP-0.31-5

### 2007-11-07 (Ale)

- Continuous the cream installation...
  - ◆ Remove the previous installed version of java and install java-1.5.0-sun-1.5.0.12-1jpp, java-1.5.0-sun-devel-1.5.0.12-1jpp and jdk-1.5.0\_12-fcs
  - ◆ Install tomcat5-5.5.25-1jpp
  - ◆ Comment line config\_jobmanager\_lsf on /opt/glite/yaim/node-info.d/glite-lsf\_utils
  - ◆ run /opt/glite/yaim/bin/yaim -c -s <site-info.def> -n creamCE -n LSF\_utils
  - ◆ Fix problem with .pem certificate
- Open issue:
  - ◆ Gip doesn't work correctly.

### 2007-11-06 (Elisabetta)

- Installed and configured CREAM from scratch using the new repository from CERN and yaim scripts. The following steps were performed:
  - ◆ wget http://grid-it.cnaif.infn.it/mrepo/repos/cream-ce\_cert.repo -O /etc/yum.repos.d/cream-ce.repo
  - ◆ yum clean all
  - ◆ yum update
  - ◆ yum install glite-yaim-core glite-yaim-cream-ce
  - ◆ Edited site-info.def, also adding the variables: BATCH\_CONF\_DIR = /data/lfs/conf and BDII\_CREAM\_CE\_URL = "ldap://\$CE\_HOST:2170/mds-vo-name=resource,o=grid"
  - ◆ Downloaded and installed jdk-1\_5\_0\_13-linux-i586-rpm by hand
  - ◆ run yum install cert-glite-cream-CE
  - ◆ downloaded and installed glite-yaim-lsf-utils-4.0.1-1.noarch.rpm
  - ◆ run /opt/glite/yaim/bin/yaim -c -s <site-info.def> -n creamCE -n LSF\_utils

### 2007-10-15 (Elisabetta)

- Submitted jobs with the requirements to forward in the .jdl, like for ex. requirements = (( other.GlueHostMainMemoryRAMSize > 300 ) && ( other.GlueHostMainMemoryVirtualSize = 996 ) && ( other.GlueCEPolicyMaxCPUtime > 2880 )); but they don't get forwarded to lsf, mainly because they don't appear in the classad passed to blah.

Following is the submitted .jdl:

```
[
Type = "Job";
JobType = "normal";
InputSandbox = {"file:///home/emolinar/test.sh"};
VirtualOrganisation = "atlas";
Executable="test.sh";
Arguments="Hello... ";
requirements = (( other.GlueHostMainMemoryRAMSize > 300 ) && ( other.GlueHostMainMemoryVirtualSiz
```



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```
Rank = other.GlueCEStateWaitingJobs;
rank = 3;
ShallowRetryCount = 3;
StdOutput="message.txt";
StdError="err.log";
OutputSandbox={"message.txt", "err.log"};
]
```

Following is what appears in the '/usr/share/tomcat5/logs/glite-ce-cream.log' file:

```
16 Oct 2007 11:48:47,636 org.glite.ce.cream.connector.blah.StreamBlahpConnector - BLAH_JOB_SUBMIT
gridType="lsf";uniquejobid="https://devel03.cnaf.infn.it:8443/CREAM266115941";ceid="devel03.cnaf.
Out="/opt/glite/var/cream_sandbox/dteam/C_IT_O_INFN_OU_Personal_Certificate_L_Milano_CN_Elisabett
Err="/opt/glite/var/cream_sandbox/dteam/C_IT_O_INFN_OU_Personal_Certificate_L_Milano_CN_Elisabett
x509userproxy="/opt/glite/var/cream_sandbox/dteam/C_IT_O_INFN_OU_Personal_Certificate_L_Milano_CN
ClientJobId="266115941";queue="long"]
```

### 2007-10-11 (Elisabetta)

- Installed the following three .rpms in order to verify the forward parameters to the batch system by BLAH works also with CREAM: glite-blah-local-submit-attributes-lsf-3.0.10-2.noarch.rpm, glite-info-dynamic-scheduler-lsf-2.0.1-2.noarch.rpm and glite-info-generic-2.0.2-2.noarch.rpm

-- AlessioGianelle - 11 Oct 2007

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Topic revision: r39 - 2011-03-25 - AlessioGianelle



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