

# Table of Contents

<b>Install a UI for the csh shell family.....</b>	<b>1</b>
Prerequisites.....	1
EGEE UI installation.....	1
Condor scheduler installation.....	2
Start and stop of the Condor scheduler.....	3
UI setup script.....	3

# Install a UI for the csh shell family

The following instructions to install a UI on the user's machine for the *csh* shell family covers the installation of the EGEE UI and a local condor scheduler. All necessary software can be installed with user privileges and do not require root access. Follow all of the following steps:

## Prerequisites

The installation requires ca. 830 MB of free disk space. To prepare the installation, the user needs to choose a user installation directory and replacing */path/to/ui/location* with the full path to this directory. The following commands create the installation directory:

```
setenv UI_LOCATION "/path/to/ui/location"
mkdir -p $UI_LOCATION
```

## EGEE UI installation

The EGEE UI installation follows <https://twiki.cern.ch/twiki/bin/view/LCG/TarUIInstall>:

1. Create the EGEE installation directory and change into this directory:

```
setenv EGEE_LOCATION $UI_LOCATION/egEE
mkdir -p $EGEE_LOCATION
cd $EGEE_LOCATION
```

2. Check that the installation tool *yaim* is installed on the user's machine with

```
rpm -qa | grep -i yaim
```

If the command returns with no result, *yaim* has to be installed by:

```
wget http://grid-deployment.web.cern.ch/grid-deployment/gis/yaim/glite-yaim-latest.rpm
rpm2cpio glite-yaim-latest.rpm > glite-yaim-latest.cpio
cpio -id --verbose --no-absolute-filenames < glite-yaim-latest.cpio
rm glite-yaim-latest.rpm glite-yaim-latest.cpio
cd opt
mv glite ..
cd $EGEE_LOCATION
rm -fr opt
```

3. An ascii file describing your UI installation has to be prepared. Create following file:

```
$EGEE_LOCATION/site-info.def
```

with following content:

```
#
# This is the site-info.def file for my gLite User Interface
#
INSTALL_ROOT=$EGEE_LOCATION
#
PX_HOST=myproxy.cern.ch
WMS_HOST=my-wms.cern.ch
BDII_HOST=lcg-bdii.cern.ch
MON_HOST=my-mon.cern.ch
REG_HOST=my-reg.cern.ch
VOS="cms"
#
USERS_CONF=$INSTALL_ROOT/glite/yaim/examples/users.conf
JAVA_LOCATION=/usr/java/j2sdk1.4.2_12
```

```
QUEUES="dummy"
DUMMY_GROUP_ENABLE="dummy"
CA_REPOSITORY="rpm http://linuxsoft.cern.ch/ LCG-CAs/current production"
#
VO_CMS_VOMS_SERVERS="'vomss://lcg-voms.cern.ch:8443/voms/cms?cms/' 'vomss://voms.cern.ch:'
VO_CMS_VOMSES="'cms lcg-voms.cern.ch 15002 /C=CH/O=CERN/OU=computer/CN=host/lcg-voms.cern.
'cms voms.cern.ch 15002 /C=CH/O=CERN/OU=computer/CN=host/voms.cern.ch cms'"
#
```

while replacing **\$EGEE\_LOCATION** with the absolute path of that variable and update **JAVA\_LOCATION** according to your system.

4. Download the latest relocatable middleware and the dependency file from here <http://grid-deployment.web.cern.ch/grid-deployment/download/relocatable/>. The two tarballs which have to be downloaded are:

```
gliteUI_WN-2007-05-15.tar.gz
gliteUI_WN-userdeps-2007-05-15.tar.gz
```

where the date \*2007-01-15.tar.gz can be different. Exemplary the download commands for the two tarballs is given here (Version: 05/15/2007):

```
wget http://grid-deployment.web.cern.ch/grid-deployment/download/relocatable/gliteUI_WN-20
wget http://grid-deployment.web.cern.ch/grid-deployment/download/relocatable/gliteUI_WN-us
```

5. Untar the tarballs:

```
tar xzf gliteUI_WN-2007-05-15.tar.gz
tar xzf gliteUI_WN-userdeps-2007-05-15.tar.gz
```

6. Install the EGEE UI with:

```
$EGEE_LOCATION/glite/yaim/scripts/configure_node $EGEE_LOCATION/site-info.def TAR_UI
```

7. The previous command installs the CA files and CRLs in the directory **\$EGEE\_LOCATION/glite/etc/grid-security/certificates**. It also installs a cron job to keep the CRLs up to date. However it is up to you to install newer versions of the CA files when they are announced. You can install new versions of the CA files executing the following command:

```
$EGEE_LOCATION/glite/yaim/scripts/run_function $EGEE_LOCATION/site-info.def install_certs_
```

8. Prepare CMS VO access by creating the following file

```
mkdir $EGEE_LOCATION/glite/etc/vomses
chmod 700 $EGEE_LOCATION/glite/etc/vomses
touch $EGEE_LOCATION/glite/etc/vomses/cms-lcg-voms.cern.ch
chmod 600 $EGEE_LOCATION/glite/etc/vomses/cms-lcg-voms.cern.ch
```

with following content:

```
"cms" "lcg-voms.cern.ch" "15002" "/C=CH/O=CERN/OU=computing/CN=host/lcg-voms.cern.ch" "cms
```

if it not already exists.

## Condor scheduler installation

1. Create an installation directory for condor and change to it:

```
setenv CONDOR_LOCATION $UI_LOCATION/condor
mkdir -p $CONDOR_LOCATION
cd $CONDOR_LOCATION
```

2. Create a directory holding the installation files and change to it:

```
mkdir -p $CONDOR_LOCATION/installation
```

```
cd $CONDOR_LOCATION/installation
```

and download the latest Condor installation tarball from <http://www.cs.wisc.edu/condor/downloads/> into this directory. In the following, replace **condor.tar.gz** with the actual name of this tarball.

3. Untar the condor installation tarball:

```
tar xzf condor.tar.gz
```

which creates a `condor_specific` directory in `$CONDOR_LOCATION/installation`. In the following, replace **condor-dir** with the actual name of this new directory.

4. Set following environment variable:

```
setenv CONDOR_DOWNLOAD_DIRECTORY $CONDOR_LOCATION/installation/condor-dir
```

5. Install Condor:

```
cd $CONDOR_DOWNLOAD_DIRECTORY
condor_configure --install=$CONDOR_DOWNLOAD_DIRECTORY/release.tar --install-dir=$CONDOR_LO
```

6. Adapt the Condor configuration

```
$CONDOR_LOCATION/etc/condor_config
```

by setting following variables replacing `$CONDOR_LOCATION` and `hostname` with their actual values:

```
RELEASE_DIR = $CONDOR_LOCATION
HOSTALLOW_WRITE = "hostname"
```

7. Prepare the Condor startscript by copying the template startscript

```
cp $CONDOR_LOCATION/etc/examples/condor.boot $CONDOR_LOCATION/etc/condor
```

and changing the **MASTER** variable of

```
$CONDOR_LOCATION/etc/condor
```

to

```
MASTER=$CONDOR_LOCATION/sbin/condor_master
```

replacing `$CONDOR_LOCATION` with its actual value.

## Start and stop of the Condor scheduler

If used, the Condor scheduler has to run all the time submitted jobs have not finished and has to have a network connection all the time.

To start the Condor scheduler, use

```
$CONDOR_LOCATION/etc/condor start
```

To stop it, use:

```
$CONDOR_LOCATION/etc/condor stop
```

## UI setup script

Prepare the following UI setup script

```
$UI_LOCATION/ui.csh
```

with following content:

```
#!/bin/csh

# gLite UI

setenv UI_LOCATION "/path/to/ui/location"

setenv EGEE_LOCATION $UI_LOCATION/egee

setenv EDG_LOCATION $EGEE_LOCATION/edg
setenv GLITE_LOCATION $EGEE_LOCATION/glite
setenv GLOBUS_LOCATION $EGEE_LOCATION/globus
setenv LCG_LOCATION $EGEE_LOCATION/lcg

source $EGEE_LOCATION/etc/profile.d/grid_env.csh

# condor

setenv CONDOR_LOCATION $UI_LOCATION/condor

setenv CONDOR_CONFIG $CONDOR_LOCATION/etc/condor_config
setenv PATH $PATH:$CONDOR_LOCATION/bin
```

while replacing **/path/to/ui/location** with its chosen value.

This script has to be called every time when the user logs into his machine and wants to use the UI.

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This topic: Main > CRABPrerequisitesUserInterfaceUICSH

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