

Setting up the UI environment

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Setting up the UI environment

How to configure the files, permissions and paths of the UI Environment to provide an optimal environment for Grid use and for running applications on the Grid.

Installing Your Certificate

Once an account on a user interface has been created, the user certificate must be installed. The recommended procedure is to create a directory named `.globus` under the user home directory to contain your grid credentials. After installation, you can check that it has been done properly with the `voms-proxy-init` command.

PKCS12 (*.p12) Formatted Certificates

If you have your credential in *PKCS12 format* (a file with either `p12` or `pfx` extension), then copy your credential to the `.globus` directory and name the file `usercred.p12`. You need to change the file permission to make sure only you have access to it:

```
$ chmod 0400 usercred.p12
```

The listing of the directory should be similar to:

```
$ ls -l $HOME/.globus
-r----- 1 doe xy 2935 Feb 1 10:49 usercred.p12
```

PEM (*.pem) Formatted Certificates

If you have your credential in *PEM format* (two files with `pem` extension) then put the certificate and key files in the `.globus` directory, naming them `usercert.pem` and `userkey.pem` respectively, with global read- only permissions for the former, and owner- read permissions for the latter, like so:

```
$ chmod 444 usercert.pem
$ chmod 400 userkey.pem
```

A listing of the directory should be similar to:

```
$ ls -l $HOME/.globus
-r--r--r-- 1 doe xy 4541 Aug 23 2006 usercert.pem
-r----- 1 doe xy 963 Aug 23 2006 userkey.pem
```

Access to Grid Client Commands

The `PATH` and other environment variables may need to be set to use grid client commands. This varies depending on which UI you are using. You should contact the system administrator of the UI to find out if anything special needs to be done to have access to the grid commands.

For example at CERN, the following scripts need to be sourced to setup the grid environment on the `lxplus` nodes:

Bourne shell users (including bash users):

```
$ source /afs/cern.ch/project/gd/LCG-share/current/etc/profile.d/grid_env.sh
```

C Shell (including tcsh):

```
$ source /afs/cern.ch/project/gd/LCG-share/current/etc/profile.d/grid_env.csh
```

This setup can be used at any site that has access to AFS.