

# EGRID Ready UI

Untar this UI software in a user's home directory and start using a EGEE/LCG-2 type Grid right now. Tested and running on Debian (sarge+etch), Ubuntu 6.10, Mandriva 2007, Scientific Linux CERN 3, White Box Linux 4

## Installation of the EGRID/EGEE User Interface tools

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The "EGRID Ready UI" is a re-packaging of the gLite UI software; its unique feature is that:

1. Installing it won't pollute your environment with tens of environment variables and path components; all you need is to add just 1 directory to your PATH!
2. It has been tested and is know to be working on several GNU/Linux distributions, including:

- Debian (sarge and etch)
- Scientific Linux CERN 3
- Ubuntu 6.10 (Edgy Eft)
- White Box Linux 4

The 'egrid-ready-ui\_\*.tar.bz2' archive contains the required files for installing the EGRID/EGEE UI on a client machine, save for a few common packages (see section *Required packages*), which should already be installed on any modern Linux box. The EGRID install script will warn about missing required packages or version conflicts.

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## **Download**

You can download the latest version of the EGRID-ready-UI from the URL [http://www.egrid.it/download/software/ui/egrid-ready-ui\\_LATEST.tar.bz2](http://www.egrid.it/download/software/ui/egrid-ready-ui_LATEST.tar.bz2) Older releases can be found at the URL <http://www.egrid.it/download/software/ui>

Sources for the install and maintenance script can be found at <http://www.egrid.it/cvs/products/egrid-ready-ui>

## **Watch out!**

The EGEE UI software is very picky and may fail mysteriously if your host does not comply with the following requirements:

- The system time must be correct! That is, your timezone must be correctly set, and your host' idea of the current time must be within five minutes from the actual correct time.

If the time is not correct, you will most likely get authentication related errors.

- Your firewall must allow *outgoing* connections to the configured grids. In particular, you will need to connect:

- ◇ to TCP port 2170 of the BDII host;
- ◇ to TCP port 7513 of the MyProxy host;
- ◇ to TCP ports 7772,9000,9001,9002 to the RB and WMS host;
- ◇ to TCP ports 2119,2811,20000—25000 of any CE;
- ◇ to TCP ports 2811,5001,8443,20000—25000 of any SE;
- ◇ to TCP ports 8080,8088,8443 of the MON and REG hosts;
- ◇ to TCP ports 5010 of the LFC host.

For a complete listing, please see:

[https://twiki.cern.ch/twiki/bin/view/LCG/LCGPortTable#The\\_middlewares\\_port\\_list](https://twiki.cern.ch/twiki/bin/view/LCG/LCGPortTable#The_middlewares_port_list)

In actual practice, it is simpler to just allow *all outgoing* connections.

## **Quick start**

0. These instructions assume that you are running '/bin/bash' as your shell; to ensure you run bash, just type:

```
bash
```

1. Untar the distribution package 'egrid-ready-ui.tar.gz' in a directory of your choice:

```
tar -xjf egrid-ready-ui.tar.bz2 -C /path/to/install/dir
```

This will extract all files in the directory /path/to/install/dir/egrid-ready-ui.

2. cd to the installation directory:

```
cd /path/to/install/dir/egrid-ready-ui
```

3. Run the install script:

```
./install
```

or

```
./install "grid"
```

where "grid" is one of: "egrid", "gridats", "euindia" or "gridbox" for configuring the UI to connect to the EGRID production Grid in INFNGrid, the *GRID@Trieste* testbed, EUIndiaGrid testbed or a Grid-in-a-Box demo Grid, respectively. (see [How to change configuration](#))

If the script complains about some required software not being found, please check section *Required packages* below.

4. EGRID software requires a properly setup environment; to ensure your execution environment is properly set up, please log out and log back in again.

System Message: INFO/1 (<string>, line 82)

Enumerated list start value not ordinal-1: "0" (ordinal 0)

If something has gone wrong, just run the installation script again.

## **Testing installation**

You can run the 'egrid-host-self-test' command to check that your UI host is properly configured. For instance:

```
egrid-ui-self-test --vo euindia
```

## **How to change configuration**

The `egrid-UI-change-config` command allows you to change the actual configuration.

The `egrid-ready-ui` comes with 4 available configurations:

*egrid*

for the `egrid` VO on the EGEE/INFN-Grid production sites

*euindia*

for the `euindia` VO on EU-IndiaGrid testbed (within EGEE); see

<http://grid-it.cnaf.infn.it/cresti/euindiagrid/wiki/index.php?n=Main.HomePage>

*gridats*

Grid of the GRID@Trieste project; see <http://grid-trieste.org/>

*gridbox*

To connect to a Grid-in-a-box demo Grid

To show a list of configurations available on your local box, type:

```
egrid-UI-change-config
```

Invoke `egrid-UI-change-config` with the name of one of the above-listed configurations to change your UI settings. For instance:

```
egrid-UI-change-config euindia
```

## **Required packages**

The EGEE User Interface apparently depends on the Java VM 1.4.x (later version like the JVM 1.5.x will *not* work!) The install script will issue warnings if it is not installed.

With most modern distributions of Linux, Java comes already preinstalled, so there is no need to do anything. If you have troubles with Java, you can find below cursory generic instructions (which should be fine with almost any Linux) and specific instructions when a short-cut for a particular distro is available.

## **Generic Linux installation**

You can get the Blackdown Java JVM from

<http://mirrors.publicshout.org/java-linux/JDK-1.4.1/i386/01/j2re-1.4.1-01-linux-i586-gcc3.2.bin>

You can find the install instructions at

<http://mirrors.publicshout.org/java-linux/JDK-1.4.1/i386/01/INSTALL-j2re>

## **Debian GNU/Linux (sarge, etch)**

You can install required software by:

```
apt-get install j2re1.4
```

## **Fedora Core**

You will need to configure your software repositories and then issue the command:

```
yum install j2re
```

Red Hat does not host the Java Runtime Environment on its Fedora Core repositories; however, 'dag.wieers.com' does: you can find instructions at how to set up Dag's repositories at:

<http://dag.wieers.com/home-made/apt/FAQ.php#B3>

Otherwise, you can directly download and install the j2re-\*.rpm's by:

```
wget http://dag.wieers.com/packages/j2re/j2re-1.4.2-8.1.fc1.dag.i586.rpm  
rpm -i j2re-1.4.2-8.1.fc1.dag.i586.rpm
```