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# AFS UI Manual Installation

## Install the software

- Download the tarball directly from the repositories or from the UI update page
  - ◆ repositories
    - ◇ 3.0: old relocateable repository [↗](#)
    - ◇ 3.1: SLC4\_x86 repository [↗](#)
  - ◆ UI updates page:  
<http://glite.web.cern.ch/glite/packages/R3.0/deployment/glite-UI/glite-UI.asp> [↗](#)
- Go to the AFS UI writable root directory (**note the extra dot**)

```
cd /afs/.cern.ch/project/gd/LCG-share
```

- Make a new directory named after the version to be installed, which we call here `VERSION_STRING`.

```
mkdir ${VERSION_STRING}
```

- Go to that directory

```
cd /afs/.cern.ch/project/gd/LCG-share/${VERSION_STRING}
```

- Untar the tarballs e.g. like this:

```
tar xzf gliteUI_WN-2006-12-18.tar.gz
tar xzf gliteUI_WN-userdeps-2006-12-18.tar.gz
```

## Reconfigure (with yaim)

**Note:** this currently requires some post-installation steps at CERN, as each VO normally has more than one RB, and different per VO, which currently is not supported by YAIM.

### Pre-configuration steps

- Customize the configuration file
  - ◆ In the root directory, edit the `site-info.def`
    - ◇ set the `INSTALL_ROOT` to  
`/afs/.cern.ch/project/gd/LCG-share/${VERSION_STRING}`
    - ◇ make sure there is no reference to `/opt` anywhere (should be `$INSTALL_ROOT` everywhere)
    - ◇ Make sure you set

```
CRONJOB_DIR=/dev/null
```

to prevent the installation of the cronjob to update the CRLs.

- In your shell set these environment variables:

```
setenv INSTALL_ROOT /afs/.cern.ch/project/gd/LCG-share/${VERSION_STRING}
setenv X509_CERT_DIR /afs/cern.ch/project/gd/LCG-share2/certificates
```

- Unset `JAVA_HOME`

```
unsetenv JAVA_HOME
```

- Move the `$HOME/.glite` directory out of the way, otherwise it will pollute the new environment scripts with obsolete values

```
mv $HOME/.glite $HOME/.glite_save
```

Link to bug or ticket if present	Hack to fix it
<a href="#">savannah 23821</a>	Rename the directory <code>\$HOME/.glite</code> to a different name
<a href="#">savannah 23822</a>	Unset <code>JAVA_HOME</code>

## Run `yaim`

```
cd $INSTALL_ROOT
./glite/yaim/scripts/configure_node site-info.def TAR_UI | tee update_`date +%y%m%d%H%M`.log
```

## Post install steps

- Change the ownership of the `vomses` file and the `vomsdir` directory entries:

```
afs_admin s_o root:root $INSTALL_ROOT/edg/etc/vomses
afs_admin s_o root:root $INSTALL_ROOT/edg/etc/vomses/*
afs_admin s_o root:root $INSTALL_ROOT/glite/etc/vomses
afs_admin s_o root:root $INSTALL_ROOT/external/etc/grid-security/vomsdir
afs_admin s_o root:root $INSTALL_ROOT/external/etc/grid-security/vomsdir/*
```

- Change the environment scripts `grid.sh`, `grid.csh` and `glite_setenv.sh`, `glite_setenv.csh` under `$INSTALL_ROOT/etc/profile.d` to use the read-only volume: change instances of `/afs/.cern.ch` to `/afs/cern.ch` in the paths.

## Known Bugs

The next step is to bugfixing. For the list of known bugs, and hacks how to fix them, please refer to the List of known bugs.

## Check the differences with the current AFS UI release

- Run a recursive diff like this:

```
diff -r 3.x.y-z ${VERSION_STRING} > diffs.txt
```

- Check the sanity of the diffs for each configuration file (e.g. in "`less diffs.txt`" search for lines starting with "diff")
- Check for files that only appear in one of the releases:

```
grep ^Only diffs.txt | less
```

Obsolete files may disappear, new files may appear, but are there unexpected changes?

## Test the new release

- Check that the VO configuration is correct. Hints are given VO-related operations on AFS UI
- Start a **new** session on `lxplus` (do **not** use an existing session)

- Source the new `grid_env.sh` or `grid_env.csh`

- Run various test commands:

```
edg-job-submit ...
glite-job-submit ...
lcg-cr ...
...
```

## If all looks well

- Point the `s13` symlink to the new release (if already desired)
- Synchronise as described Synchronize read-only copy on AFS
- Make a **backup** of the new release

```
cd /afs/.cern.ch/project/gd/LCG-share
gtar cfz /afs/cern.ch/project/gd/afs-ui-bkp/AFS-UI-$VERSION_STRING-`date +%y%m%d`.tgz \
  $VERSION_STRING
```

- Remove old backups that should no longer be needed (be careful).

-- JuditNovak - 04 Oct 2007 -- FaridaNaz - 12 Nov 2007

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