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AFS UI Installation/Configuration scripts

In order to make the steps listed above faster, there are scripts available to help the upgrade to a new CERN AFSUI version. There are scripts both for production and PPS UI upgrade. Credits to the author of the scripts, Diana Bosio 😊

The scripts can be downloaded from gLite CVS [afs_ui_scripts](https://glite.cern.ch/cgi-bin/glite.cgi/afs_ui_scripts/) repository.

- http://glite.cern.ch/cgi-bin/glite.cgi/afs_ui_scripts/

Scripts related to the installation of a new tar UI version are located in the `ui_upgrade` directory.

Location of the tar files is

- 3.0: old relocateable repository [↗](#)
- 3.1: SLC4_x86 repository [↗](#)

Update + testing scripts

Inside the CVS repository, there is a directory called `ui_upgrade`. Here you find the scripts related to UI install/upgrade.

1. `to_update_ui.sh`: downloading tar files, performing upgrade

- ◆ Example:

- ◇ PPS:

- 3.0 `./to_update_ui.sh -t=pps -d=2007-09-26 -u=40 -o=38`
 - 3.1 `./to_update_ui.sh -t=pps -d=2007-09-26 -v=3.1.0-6 -u=40 -o=38`

- ◇ Production: `./to_update_ui.sh -t=prod -d=2007-09-12 -v=3.0.25-0 -o=38`

- ◆ Steps performed by the script:

1. download corresponding tar files
2. untar locally (check if tar files are OK)
3. untar on AFS
4. show `site_info.def`
 - check if values are correct for `INSTALL_ROOT` and `JAVA_LOCATION`
5. show `config_crl` function
 - you should put as the first line of the function `return 0` as there is a separate CRL update mechanism set up for the AFSUI
6. link `/afs/cern.ch/project/gd/LCG-share2/certificates` to `${INSTALL_ROOT}/external/etc/grid-security` As we are using the central installation of certificates, that's what we have to configure in `site-info.def`. But YAIM needs the dir to exist (see https://twiki.cern.ch/twiki/bin/view/LCG/UiTarInstall#Handling_of_certificates) so we must link it before running YAIM.
7. run YAIM

2. `post_install_ui.sh`: Fixing/checking list of bugs available on AFS UI Manual Installation page

- ◆ Example:

- ◇ PPS: `./post_install_ui.sh -t=pps -u=40 -o=38`

- ◇ Prod: `./post_install_ui.sh -t=prod -v=3.0.25-0 -o=38`

- ◆ Note:

1. Whenever you find a new bug, please
 1. update the list of bugs on AFS UI Manual Installation

2. update the scripts in CVS [↗](#)
2. Please don't remove any checks from the scripts that were fixing/checking old bugs, even if they are fixed. Safety checks can't hurt, bugs might re-appear by mistake.
- ◆ Steps performed by the script:
 1. Copy and check VOMS files in
 - `.$INSTALL_ROOT/(external?)edg/etc`
 - `.$INSTALL_ROOT/(external/)?edg/etc`
 2. Changing permissions using the `afs_admin s_o root:root` command. Files in the above directories are modified, together with files in
 - `.$INSTALL_ROOT/(external/)?etc/grid-security/vomsdir`
 3. Fixing links in `.$INSTALL_ROOT/etc/profile.d`
 4. gLite 3.1 **only**:
 - Adding reference to local python 2.3 installation to PYTHONPATH and PATH
 - copying `.$INSTALL_ROOT/etc/unsetup.d` with corresponding version number
 5. Fixing `voms-admin` client installation
 6. Uncommenting `LoggingDestination` from `edg/etc/edg_wl_ui*_var.conf` files
 7. **INTERACTIVE**: Checking `edg/etc/edg_wl_ui*_var.conf` files
 8. Linking `/afs/cern.ch/project/gd/LCG-share2/certificates` to `.$INSTALL_ROOT/etc/grid-security`
 9. gLite 3.1 **only**:
 - copying `.$INSTALL_ROOT/external/unsetup.d/` files with adjusted release number inside
 10. (only gLite 3.1) Appending to `.$INSTALL_ROOT/etc/profile.d/glite_setenv.sh` the following lines.
(Note
 - fix it manually, that the appended lines would go inside the 'if' clause)
 - `"gridpath_prepend "PATH" "${$INSTALL_ROOT}/external/usr/bin"`
 - `gridenv_set "GT_PROXY_MODE" "old" (#30998 ↗)`
 11. **INTERACTIVE**: file `.$INSTALL_ROOT/(external)/etc/grid[_]env.sh`
 - (gLite 3.0) Adding the sourcing of setup scripts to environment scripts
 - Checking if the CSH script doesn't have '`> $myNtempfile`' references, but only with '`>>`'
 - gLite 3.0: `source $INSTALL_ROOT/etc/profile.d/glite_setenv.(c)sh`
 - gLite 3.1 before update 02: `source $INSTALL_ROOT/etc/profile.d/grid-env.(c)sh`
 12. **INTERACTIVE**: (gLite 3.0) Checking
 - `.$INSTALL_ROOT/etc/profile.d/glite_setenv.(c)sh`
 13. Removing references to read-only AFS volume (only for Prod installation) from environment files
3. `to_check_ui.sh`: Checking for well-known problem fixes
 - ◆ Example:
 - ◇ PPS: `./to_check_ui.sh -t=pps -d=2007-09-26 -u=40 -ou=38`
 - ◇ Prod: `./to_check_ui.sh -t=prod -d=2007-09-26 -v=3.0.24-0 -ov=3.0.22-1`
 - ◆ Steps performed by the script:
 1. Checking if VOMS files are owned by root
 - `.$INSTALL_ROOT/edg/etc/vomses`
 - `.$INSTALL_ROOT/glite/etc/vomses`
 - `.$INSTALL_ROOT/(external/)?etc/grid-security/vomsdir`
 2. **Prod ONLY**: Check if references to read-only AFS directory doesn't appear in environment files
 3. Check if `#LoggingDestination` is commented out in `.$INSTALL_ROOT/edg/etc/edg_wl_ui*_var.conf` files

4. Check if no references to /tmp/glite appear in
 \${INSTALL_ROOT}/glite/etc/*/glite_wms.conf,
 \${INSTALL_ROOT}/glite/etc/*.conf
 5. Check if environment files are sourcing
 - gLite 3.0: glite_setenv. (c) sh
 - gLite 3.1: grid-env. (c) sh
 6. **Prod ONLY:** Check if references to read-only AFS directory doesn't appear in
 \$INSTALL_ROOT/glite/etc/grid-security
4. to_test_ui.sh: Testing UI installation
- ◆ Example:
 - ◇ PPS: ./to_test_ui.sh -t=pps -u=40
 - ◇ PPS: ./to_test_ui.sh -t=pps -v=3.1.2-0 -u=09 (for gLite 3.1)
 - ◇ Prod: ./to_test_ui.sh -t=prod -v=3.0.24-0
 - ◆ Steps performed by the script:
 1. lcg-infosites --vo dteam rb
 2. voms-proxy-init --voms dteam, **or** voms-proxy-info, if valid proxy exists
 3. glite-wms-job-list-match -a hello_world.jdl
 4. glite-wms-job-submit -a hello_world.jdl
 5. UI_validation_tests.pl
 - basic perl test
 6. UI_validation_tests.py
 - basic python test
 7. **Prod ONLY:** Creating backup of the installation
 - **INTERACTIVE:** Choice of creating it or not. Every new installation should be archived.

-- JuditNovak - 04 Oct 2007

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