



Enabling Grids for E-science

# Grid Exercises Additional Information

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- **We have 40 teams – log on to the 3 Grid user interface machines (grid1, grid2, grid3):**
  - Team 1-13: grid1
  - Team 14-27: grid2
  - Team 28-40: grid3
- **Initialize the UI for you (only needed once):**
  - Run `/opt/glite/etc/config/scripts/glite-ui-config.py`
  - Source `/etc/glite/profile.d/glite_setenv.sh` (or log out and log in again)

- **Install your grid credentials:**
  - `mkdir ~/.globus`
  - `scp <login>@glite-tutor.ct.infn.it:~/.globus/user*.pem ~/.globus/.`
  - This requires the <login> and <password> you have been given
- **Create a VOMS proxy:**
  - `voms-proxy-init -voms glidav`
  - This requires the <passphrase> you have been given

- **Documentation**
  - can be found at `/home/download/doc` (use the browser as some of the docs are webpages)
  - All commands have usually a `-h` flag and manpages
  
- **Information system**
  - Don't use the CLI but go to the webpage
    - <https://glite-demo.ct.infn.it> and continue with “info services” – r-gma
    - In order to make that work you need to load your certificate into the browser – see <http://lcg.web.cern.ch/LCG/users/registration/load-cert.html> on how to do that
  - You don't need to explore ALL tables, focus on the following ones
    - GlueService, GlueSE, GlueCE (click on table sets)
  - Alternatively, you can use <https://glite-demo.ct.infn.it> and continue with “monitoring” – this doesn't require the certificate since it's using a different information system (insecure one). This web site shows all the sites connected to GILDA – you are not necessarily allowed to use all these sites. It is based on a different information system and uses a different interface than R-GMA
  
- **Workload Management**
  - Don't try exercise 2.1.4 – connectivity problems prevent interactive jobs from working

- **Catalog exercises**

- Use the commands with `-s Fireman` to point to the correct catalog

- **Data movement**

- Use FTS commands with `-s FTS`
- Proxy needs to be stored in myproxy (just once):
  - `myproxy-init -s grid001.ct.infn.it -d`
  - You need your passphrase and can choose a password
- The myproxy password you've chosen needs to be passed to FTS (when you are asked to do so)
- You need to use SURLs for the FTS
  - Get the source SURL from the catalog (glite-catalog-stat)
  - Depending, where the file is, you can use as destination SURL
    - `srm://aliserv6.ct.infn.it:8443/srm/managerv1?SFN=/dpm/ct.infn.it/home/gilda/<filename>`
    - `srm://egee016.cnaf.infn.it:8443/srm/managerv1?SFN=/dpm/cnaf.infn.it/home/gilda/`
- Don't try exercise 3d – FPS catalog interaction is having problems

- **Catalog and WMS exercises**
  - Use the following endpoint in your jdl:
    - `StorageIndex =`  
`"https://grid017.ct.infn.it:8443/gilda/glite-`  
`data-catalog-service-fr-`  
`mysql/services/SEIndex";`
  - We still try to configure some sites appropriately – so it is not yet clear whether it will work