

MetaComputing

- What YOU need to do before hand
- Paths, security, install tests

Legion

- This is the easy one as it is all under local control
- But we need to know that you need a legion account so, email Brett ellis@cs.utk.edu and myself fagg@cs.utk.edu that you need an account. We will email you when we have added you.

Legion

- Once we have added you to the legion users
- Only on the torcs
 - source /usr/local/OPR/setup.csh
 - Or /usr/local/OPR/setup.sh
 - This will set your environment variables such as LEGION, LEGION_OPR and add legion binary directories to your search path

Legion

- To run/test legion
- On torc1 to 8
 - After setting up your path
 - legion_login /users/YOUR_USER_NAME
 - It will ask for your legion password

Legion

- To test
 - Make sure you are logged in
 - legion_whoami
 - This will verify who you are in legion space
 - To see resources etc
 - legion_ls /hosts
 - To run a simple job
 - legion_run
 - » See the manual pages (I.e. man legion_run)

Globus

- Globus is not completely managed locally
 - To allow us to interact with other Globus (Grid) sites we use the Globus Certificate Authority (CA) located at ANL.
- This means you must request a certificate from THEM to be able to use OUR system.

Globus

- First
 - Ssh torc1
 - MUST BE SSH
- Second
 - Setenv GLOBUS_INSTALL_PATH /usr/local/globus-build
- Third
 - \$GLOBUS_INSTALL_PATH/tools/i686-pc-linux-gnu/bin/grid-cert-request

Globus

- This is what it looks like:
 - A certificate request and private key is being created.
 - torc0.cs.utk.edu> /usr/local/globus-build/tools/i686-pc-linux-gnu/bin/grid-cert-request
 - A private key and a certificate request has been generated
 - with the subject:
 - /O=Grid/O=Globus/OU=cs.utk.edu/CN=Graham Fagg
 - If the CN=Graham Fagg is not appropriate, rerun this script with the -cn "Common Name" option.
 - -----
 - Your private key is stored in /ptfe/homes/fagg/.globus/userkey.pem
 - Your request is stored in /ptfe/homes/fagg/.globus/usercert_request.pem
 - Please e-mail the certificate request to the Globus CA
 - cat /ptfe/homes/fagg/.globus/usercert_request.pem | mail ca@globus.org
 - Your certificate will be mailed to you within two working days.

Globus

- 4th
 - Run this command: `cat ~/.globus/usercert_request.pem | mail ca@globus.org`
- 5 th
 - When they mail you back, you mail Brett ellis@cs.utk.edu the certificate, and he add you to our local Globus machine.

Globus

- Testing first the paths
 - On a torc
 - `setenv GLOBUS_INSTALL_PATH /usr/local/globus-build`
 - `source $GLOBUS_INSTALL_PATH/etc/globus-user-setup.csh`
 - `setenv SSL_PATH /usr/local/ssl`

Globus

- Then
 - globus_setup_test
 - This will tell you that you are on a valid set of resources and that the install is correct
- To test your logging in
 - grid-proxy-init
 - This will ask for your PEM password
 - If this fails we need to get you a new certificate....