





#### **Outline**

- Proxies step by step
  - 1. Generate a proxy
  - 2. Store the proxy to Myproxy server
  - 3. Delegate credential to the wms
- □ All steps in one script: StartGridSession.sh







#### 1. Generate a proxy



#### □ voms-proxy-init --voms <VO>

- eg. voms-proxy-init --voms tutor
- Creates a 12h proxy in your local /tmp/ directory
  - ✓ Is -I /tmp/-rw----- 1 mooc mooc 5871 Oct 10 16:5 x509up\_u520
- If you get the following error... check the certificate permissions!
   "Couldn't find valid credentials to generate a proxy.
   Use --debug for further information. "
- □ voms-proxy-info
  - Gives proxy information
  - eg. see how much time there is left on your Grid session:
- voms-proxy-destroy
  - Destroys this session proxy





# 2. Store proxy to Myproxy server



- myproxy-init -d -n
  - It stores a week long proxy certificate in the Myproxy server
- myproxy-info -d
  - Gives proxy information on Myproxy
- myproxy-destroy -d
  - Destroys the proxy on Myproxy
  - Note: You need to have a valid local proxy to execute this
  - It doesn't cancel the job. It runs until proxy expires.

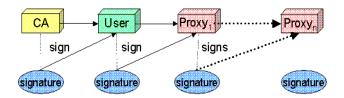




# 3. Delegate proxy to WMS



- glite-wms-job-delegate-proxy -d <delegation ID>
  - e.g. glite-wms-job-delegate-proxy -d \$USER
  - <delegation id >
    - ✓ Identifies your session
    - ✓ glite-wms-job-delegate-proxy –a
    - √ -a option is time consuming



And now you are ready to submit jobs to the Grid!
 Or copy data from and to the grid...





#### **Start Grid Session**

	mooc@ui:~/.globus	
laptop	\$	
		<b>▶</b>



## StartGridsession script

#### Renew your Grid session: StartGridSession.sh < VO>

cat /usr/local/bin/StartGridSession.sh

```
#1/hin/hash
if [ $# != 1 ]
   then printf "ERROR: not enough params, use 'startGridSession <voname>', or try -h for a help text\n" exit 192
declare -r OPTSTRING=":h"
declare SWITCH
declare -r VOMSPROXYINIT="voms-proxy-init -voms $1 --valid 168:00 -pwstdin" declare -x DELEGATIONID
declare -r GLOBUSDIR="$HOME/.globus"
declare -r CERT="$HOME/.globus/usercert.pem
declare -r KEY="$HOME/.globus/userkey.pem"
declare -r MYPROXYINIT='myproxy-init -S -s px.grid.sara.nl -d -n'
          case $SWITCH in
          h)
printf "The command startGridSession <vo_name> starts your Grid session for a particular VO. \n\
It enables you to create jobs that have a default\n\
Ife span of one week. Your username (SUSER) will be used as the delegation identifier\n\
and will also be stored in SHOMEY.jobbus/DID.txt. You\n\
need this identifier when submitting jobs.\n'
          exit 0
          ;;
*) printf "Invalid use: use -h for help'
exit 192
done
if [ ! -e $CERT ]
  then
printf "%s\n" "Your gridcertificate does not exist";
printf "%s\n" "The file usercert.pem should be in $HOME\.globus'
  exit 192
if [ ! -r $CERT ]
  printf "%s\n" "Your gridcertificate can not be read";
exit 192
fi
if [ $? -ne 0 ]
    printf "%s\n" "Your userkey permissions and/or owner is incorrect: unable to change that!"
if [ -z $HOME ] ;
   printf "HOME is not set!\n"
printf "%s\n" "Now starting...
```

```
function checkstatus(){
if [ $? -gt 0 ]
 printf "command failed\n"
 exit $?
read -p "Please enter your GRID password:" password
echo $VOMSPROXYINIT
SVOMSPROXYINIT << END
Spassword
checkstatus
SMYPROXYINIT <<END
$password
checkstatus
DELEGATIONID=\dite/bin/glite-wms-job-delegate-proxy -d $USER
DID="${DELEGATIONID#*identifier: *}"
printf "%s\n" "Your delegation ID is: $i"
DTD=Si
break
function saveDelegationID(){
if [ -d $GLOBUSDIR -a -w $GLOBUSDIR
 echo SDID > "SHOME/.globus/DID.txt"
printf "%s\n" "iUnable to store your Delegation ID: The directory .globus does not exist or is not writable"
 exit 192
fi
saveDelegationID
```





## **Summary**

- Proxy generation
- Proxy acts on your behalf
- Ready to submit jobs

