

Practical: MyProxy and GENIUS







EGEE-II INFSO-RI-031688



- You may need:
 - To interact with a grid from many machines
 - And you realise that you must NOT, EVER leave your certificate where anyone can find and use it.... Its on a USB drive only.
 - To use a portal, and delegate to the portal the right to act on your behalf
 - To run jobs that might last longer than the lifetime of a short-lived proxy
- Solution: you can store a long-lived proxy in a "MyProxy repository" and derive a proxy certificate when needed.

Grid authentication with MyProxy

Enabling Grids for E-sciencE



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- Please do this command now
- Enter your certificate's passphrase and then a myproxy pass phrase (twice)... and remember it!!



- In a browser go to <u>https://glite-tutor.ct.infn.it/</u>
- (When asked: Accept for this session only)
- Select "Set VO/VOMS" and confirm you are acting in the GILDA VO by "set"
- Enter your username and your MyProxy pass phrase
- Choose job service- job submission –single job
- Allow the resource broker to choose
- Submit the job





- Can be tailored to suit a particular VO and its applications
- Allows Grid jobs to be run from any browser
- MyProxy enables this by issuing the portal server with a proxy on your behalf
- Many VOs members do not have time or inclination to code!
 - Need to be provided with an easy interface
- GENIUS is provided by the University of Catania and NICE



- Choose "single job" then "job queue"
- If it has completed, retrieve the output file.

- You can return to this later.
- Anyone can use GENIUS via https://grid-demo.ct.infn.it/



Consists of a server and a set of client tools that can be used to delegate and retrieve credentials to and from a server.

MyProxy Client commands:

- myproxy-init
- myproxy-info // myproxy-info -s <host name> -d
- myproxy-destroy
- myproxy-get-delegation

```
// myproxy-get-delegation -s <host name> -d
-t <hours> -o <output file> -a <user proxy>
```

• myproxy-change-pass-phrase

The *myproxy-init* command allows you to create and send a delegated proxy to a MyProxy server for later retrieval; in order to launch it you have to assure you're able to execute the voms-proxy-init command.

```
myproxy-init -s <host name> -t <hours> -d -n
```

The myproxy-init command stores a user proxy in the repository specified by <host name> (the -s option). Default lifetime of proxies retrieved from the repository will be set to <hours> (see -t) and no password authorization is permitted when fetching the proxy from the repository (the -n option). The proxy is stored under the same user-name as is your subject in your certificate (-d).



- Keep your private key secure.
- Do not loan your certificate to anyone.
- Report to your local/regional contact if your certificate has been compromised.
- Do not launch a proxy for longer than your current task needs.

If your certificate or proxy is used by someone other than you, it cannot be proven that it was not you.



- MyProxy
 - Secure storage of long-lived proxy certificates
 - Delegation so services can create and use a proxy on your behalf
 - E.g. portals
 - WMS: renewal of proxy when it is near expiry