



Enabling Grids for E-science

# MyProxy - a brief introduction

[www.eu-egee.org](http://www.eu-egee.org)



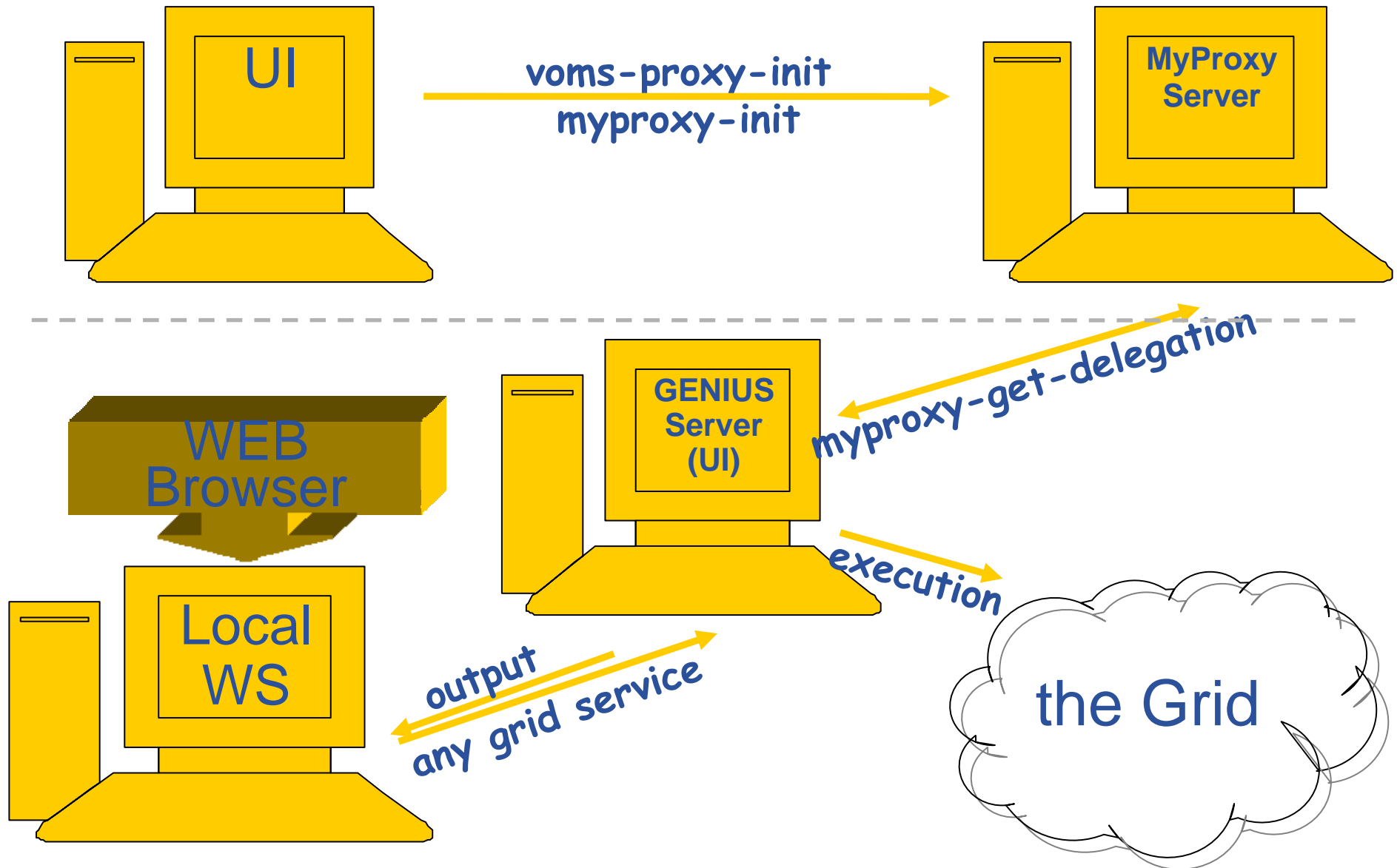
- **You may need:**
  - To interact with a grid from many machines
    - And you realise that you must NOT, EVER leave your certificate where anyone can find and use it.... It is on a USB drive only.
  - To use a portal, and delegate to the portal the right to act on your behalf (by logging in to an account that can make a proxy certificate for you)
  - To run jobs with run/queue times longer than the lifetime of a short-lived proxy – i.e. you need the WMS to refresh the proxy on your behalf.
  
- **Solution: you can store a long-lived proxy in a “MyProxy repository” and derive a proxy certificate when needed.**

1. Destroy your current proxy (if it exists!): **voms-proxy-destroy**
2. Create a new voms proxy  
**voms-proxy-init - -voms gilda**  
**voms-proxy-info - -all**
3. Register a proxy with the MyProxy server  
**myproxy-init --voms gilda**  
 You will be asked to set a new pass phrase for this server  
 Remember what you set!
4. Delete your current proxy:  
**voms-proxy-destroy**
5. Obtain a proxy from the server:  
**myproxy-get-delegation -s grid001.ct.infn.it**
6. See that you do have a proxy now:  
**voms-proxy-info -all**  
 Notice the difference!
7. Go to the GENIUS portal and log on  
 using the new pass phrase and your sofiaXX name  
<https://glite-tutor.ct.infn.it/>

For more information:

<https://grid.ct.infn.it/twiki/bin/view/GILDA/MyProxyUse>

# Grid authentication with MyProxy



**Allow myproxy-init to issue proxies to the Resource Broker to allow execution of long jobs... or jobs that might be queued for a long time**

- **-R : so the proxies are renewable by the WMS**
- **-d: force use of the DN (distinguished name, the full name in your certificate)**
- **-c: set the credential lifetime (in the MyProxy server) to 1 week, usually**
- **-t: define the lifetime of the issued proxy – usually 12 hours**

- **Some RBs do renew proxies already**
- **Only some combinations of Resource Broker and MyProxy server work!**
  - Need to know addresses
- **The VOMS server will only issue 24 hour credentials!**
  - you need to refresh the proxy in the myproxy server regularly