MyProxy - a brief introduction

- **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.
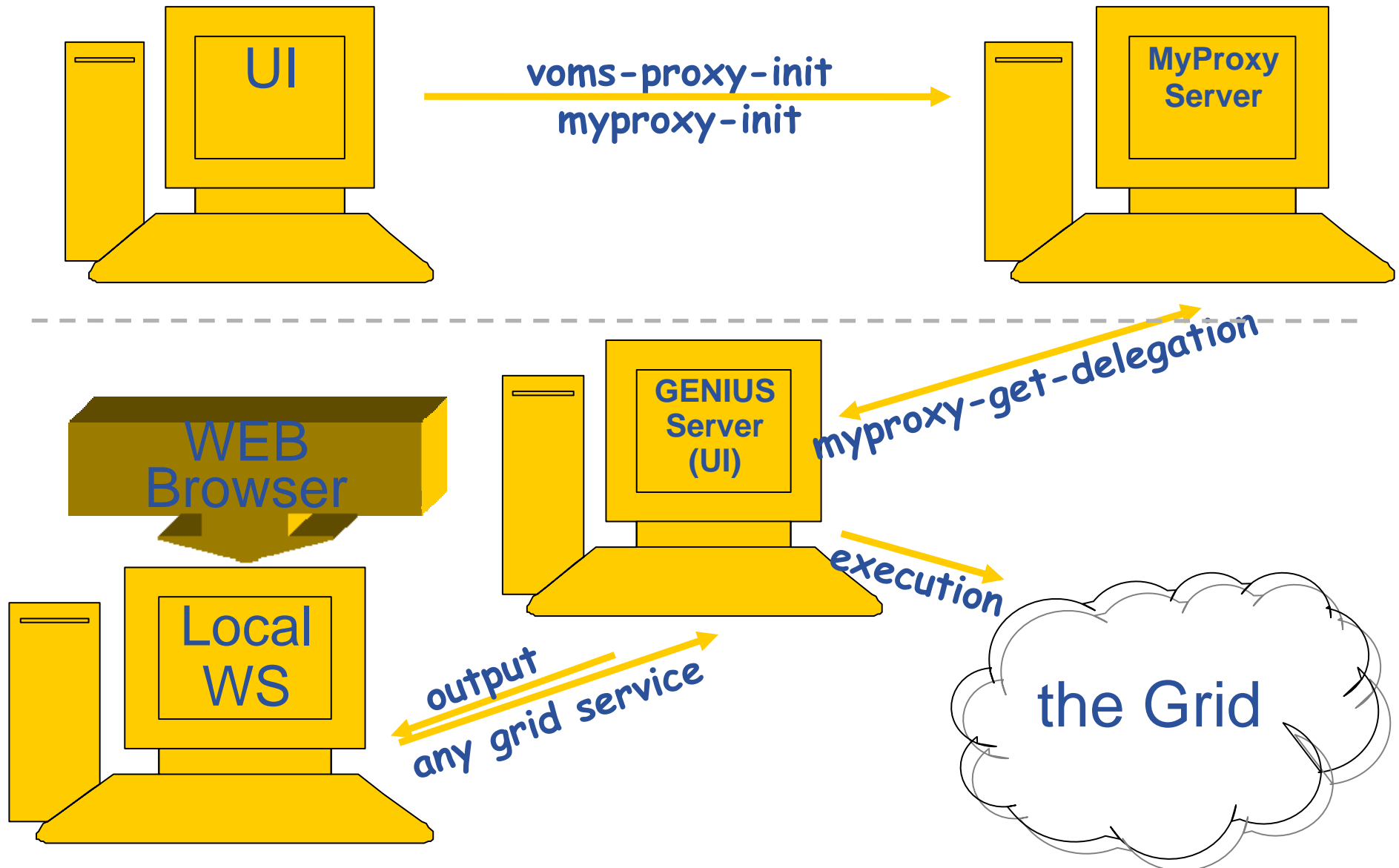
- **Solution: you can store a long-lived proxy in a "MyProxy repository" and derive a proxy certificate when needed.**

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

UI

voms-proxy-init
myproxy-init

MyProxy Server

GENIUS Server (UI)

myproxy-get-delegation

WEB Browser

Local WS

output

any grid service

execution

the Grid

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**

Enabling Grids for E-sciencE

- **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