



Enabling Grids for E-scienceE

Practical: MyProxy and GENIUS

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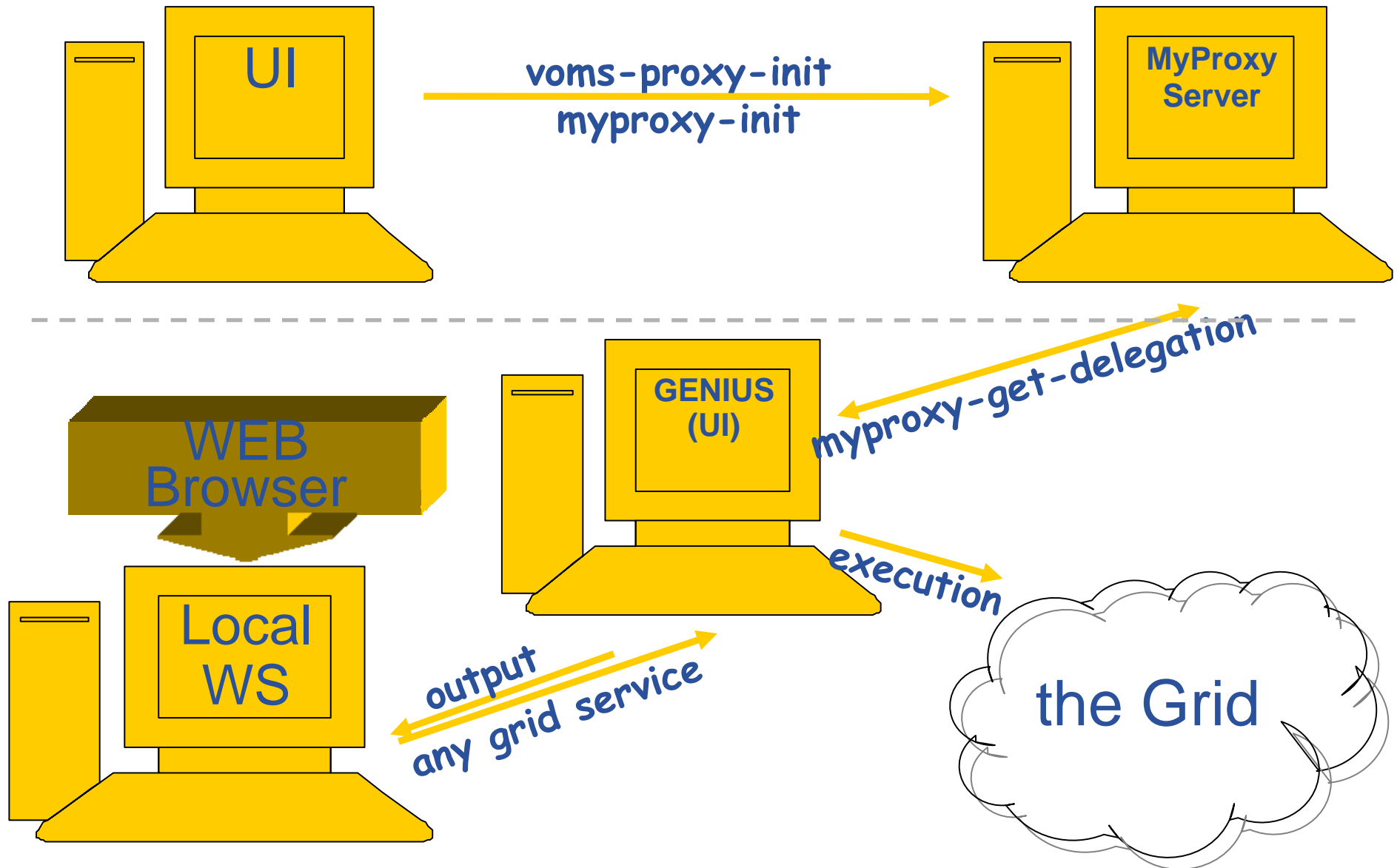


- Offers a web interface to Grid, potentially accessible from everywhere
- Despite of potentially different back-ends, keep an uniform interface
- User friendly layout : hides the Unix command line complexities
- Can be tailored to suit a particular VO and its applications
- Allows Grid jobs to be run and retrieved from any browser
- Allows interaction with Grid Data Management system
- MyProxy enables this by issuing the portal server with a proxy on your behalf
- Provides an easy interface to VOs members which don't have time or inclination to code!
- GENIUS is provided by INFN and NICE srl, its free for academic and / or research purposes

- **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



- **You are going to**
 - Store a MyProxy credential on a myproxy server
 - Configure your genius account with GILDA VO default settings
 - Submit a job, monitor its status through the web interface and retrieve its output
 - Browse the GILDA VO file catalog through the web interface
 - Copy a file on a GILDA Storage Element
 - Manage your file on your account on UI where GENIUS runs

Go on with the Myproxy and GENIUS practicals

- GENIUS Portal <https://genius.ct.infn.it> (Reference site)
- EnginFrame Framework <http://www.enginframe.com>
- GENIUS Repository at <https://geniuscvs.ct.infn.it>
- GENIUS based on gLite for GILDA at <https://glite-tutor.ct.infn.it>