



Introduction to P-GRADE Portal hands-on

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portal.p-grade.hu

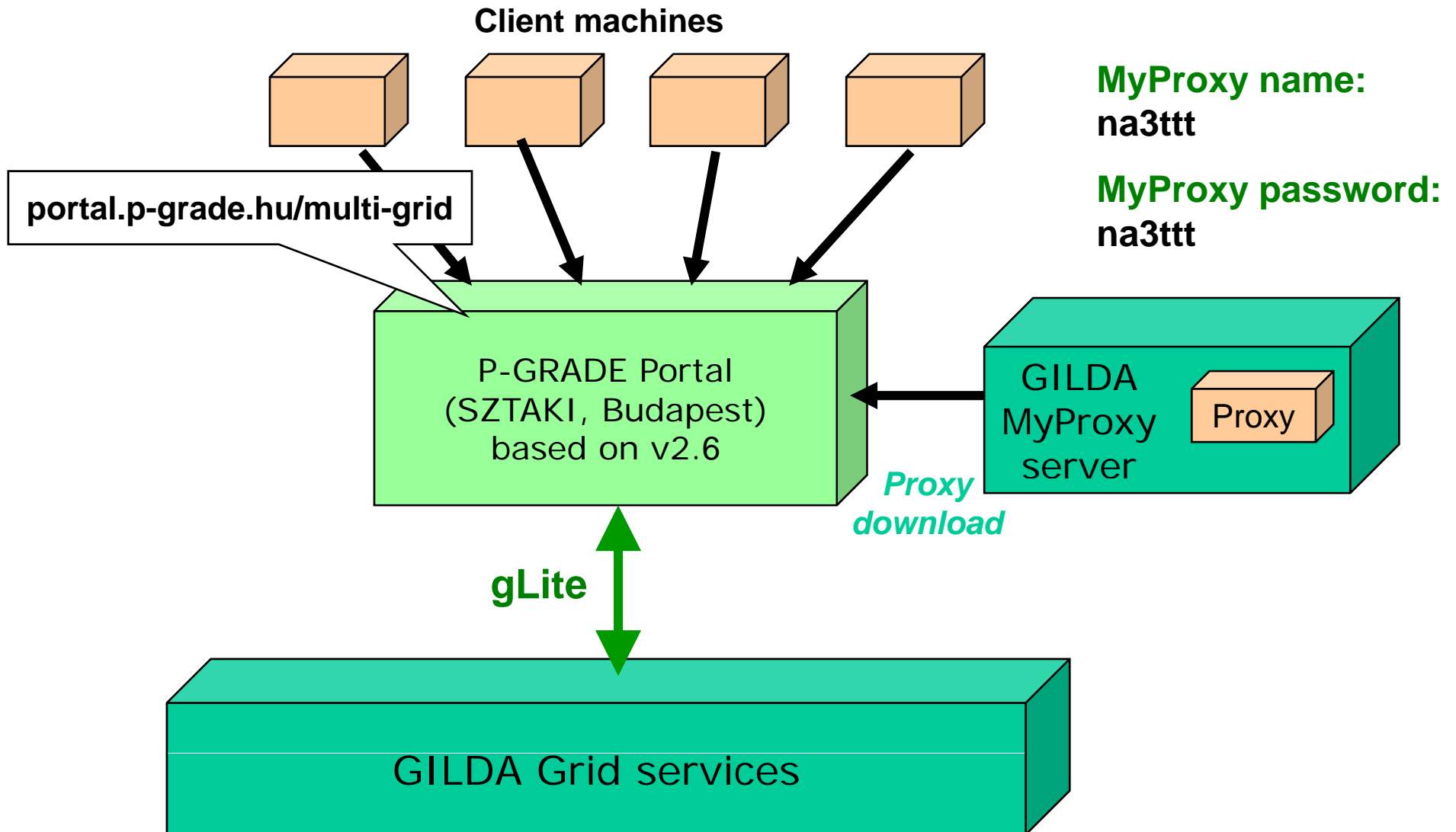


***Open the tutorial sheets
from the agenda page***

<http://indico.cern.ch/conferenceDisplay.py?confId=33793>



Infrastructure

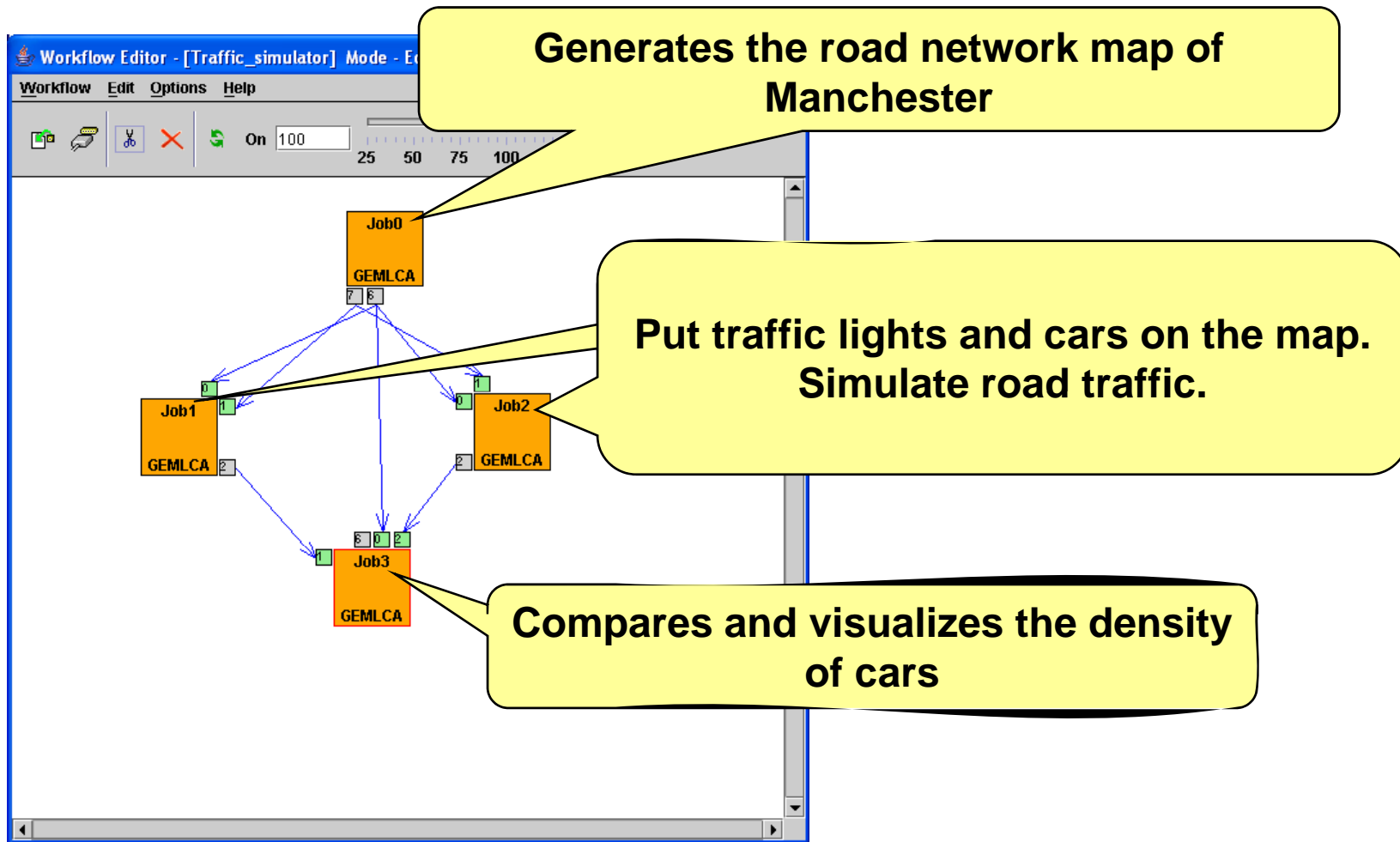




Tutorial 1, Exercise 1

Import and execute a pre-defined application

Traffic simulation





Tutorial 1, Exercise 2

Create a matrix multiplication workflow (one job workflow)

Job executable:

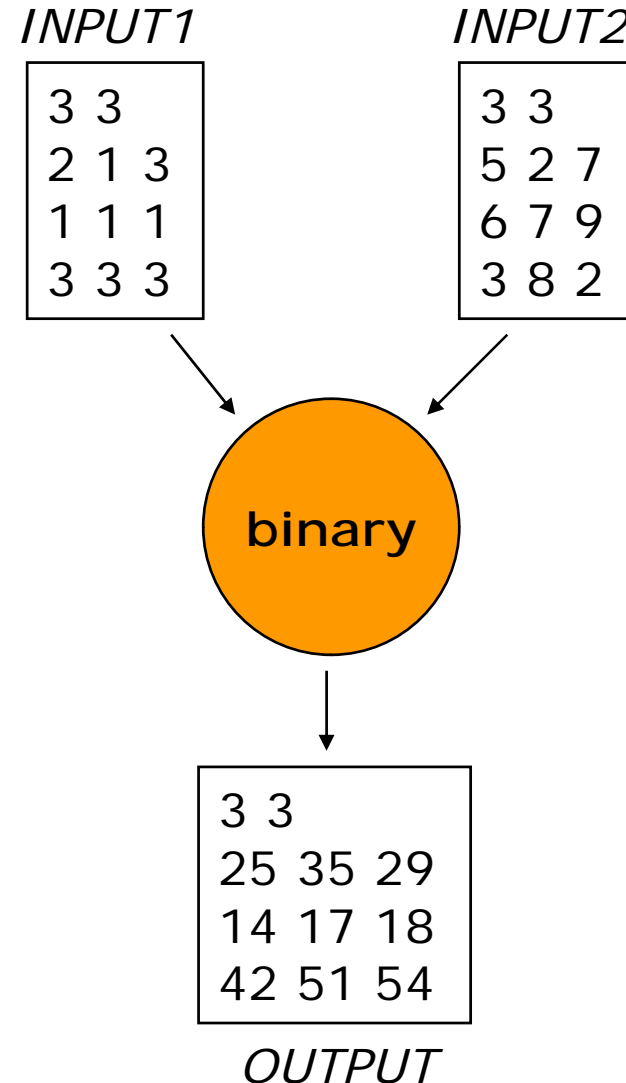
- C code, compiled on GILDA UI
- Expects command line parameters: M
V
- Knows nothing about the grid

Job input/output files:

- Program reads matrixes from two files called **INPUT1** and **INPUT2**
- Program writes result matrix into file called **OUTPUT**

Local execution on a PC: **./multiply M V**

Task: Execute the program on EGEE,
transfer input and output files in
Sandboxes from the client

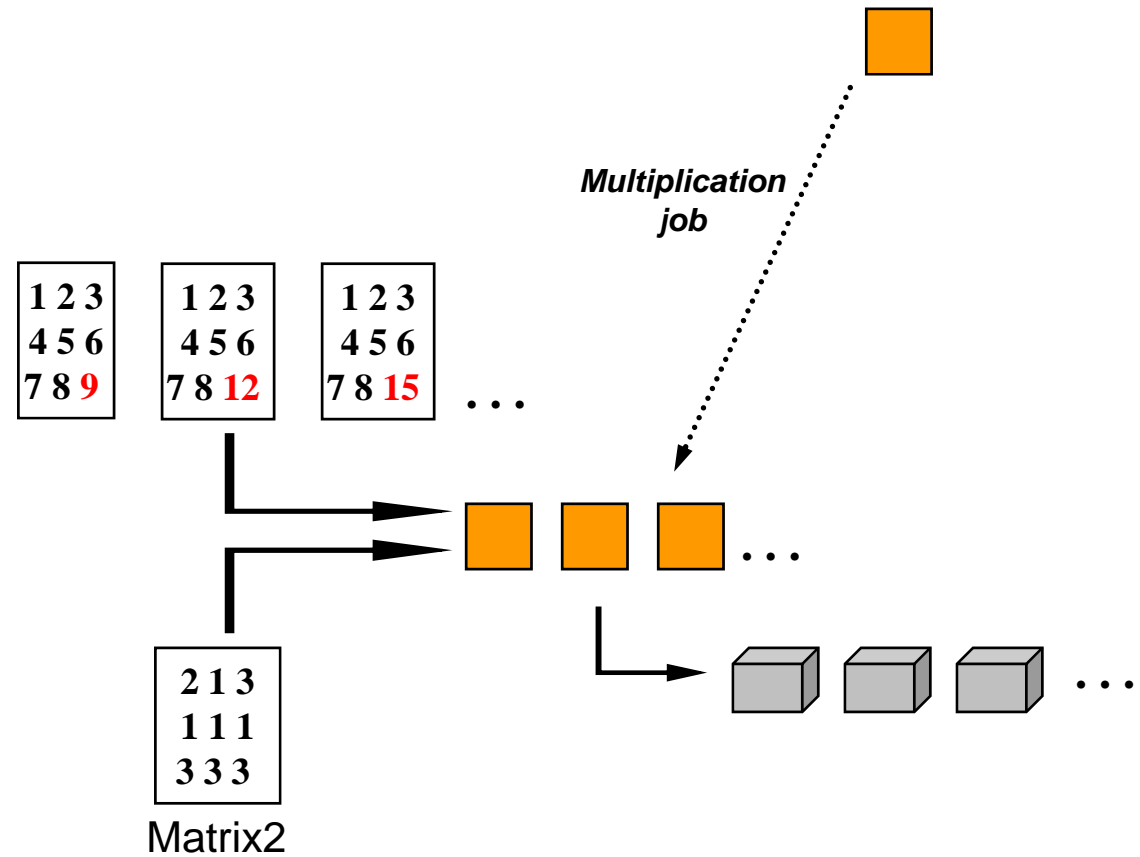




Tutorial 2

Matrix multiplication PS

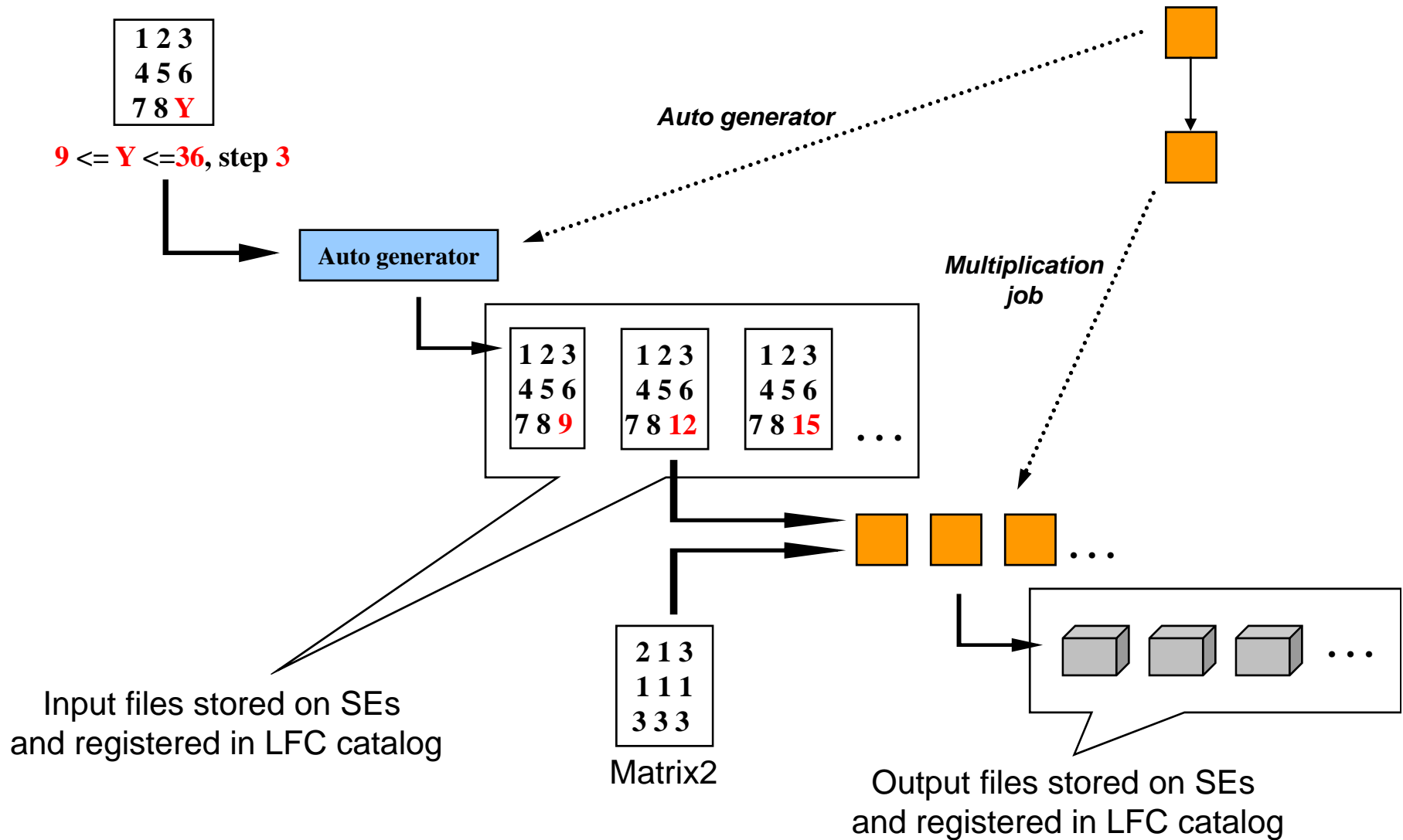
parameter study workflow with 5 parameters





Tutorial 2

Matrix multiplication PS parameter study workflow with 5 parameters





Tutorial sheet:

<http://indico.cern.ch/conferenceDisplay.py?confId=33793>

Login to Portal:

Portal accounts: **user01** – **user20** *use your number*

Portal passwords: **user01** – **user20**

Proxy download information:

Hostname: **grid001.ct.infn.it**

Port: **7512**

Account: **na3ttt**

Password: **na3ttt**

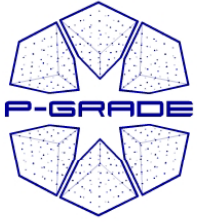
No need to wait for jobs to finish – proceed to next exercise



Job level fault tolerance

Tips

- **Exclude erroneous sites from the brokering process:**
 1. Open the JDL editor of the job
 2. Write **other.GlueCEInfoHostname != "hostname"** into the "Ranks & requirements" window
- **Automatic job resubmission:**
 1. Add **ShallowRetryCount = 3** into JDL



User authentication

