

Opportunistic usage of local computing resources : ideas to discuss

Summary

- Why considering opportunistic use of local resources ?
- Possible solution
- Discussion

Why considering opp.usage

- Funding is scarce
 - LCG-France gives only 70% of the necessary amount to renew (not to grow) resources.
Until now the lab have found the missing 30%, but it cannot be considered granted
 - Applying for local funding from the Region *Pays de la Loire* but they will favor combined application and consolidation of data centers
 - That may be the only way to keep, renew or grow the resources offered to the Grid and/or to Alice

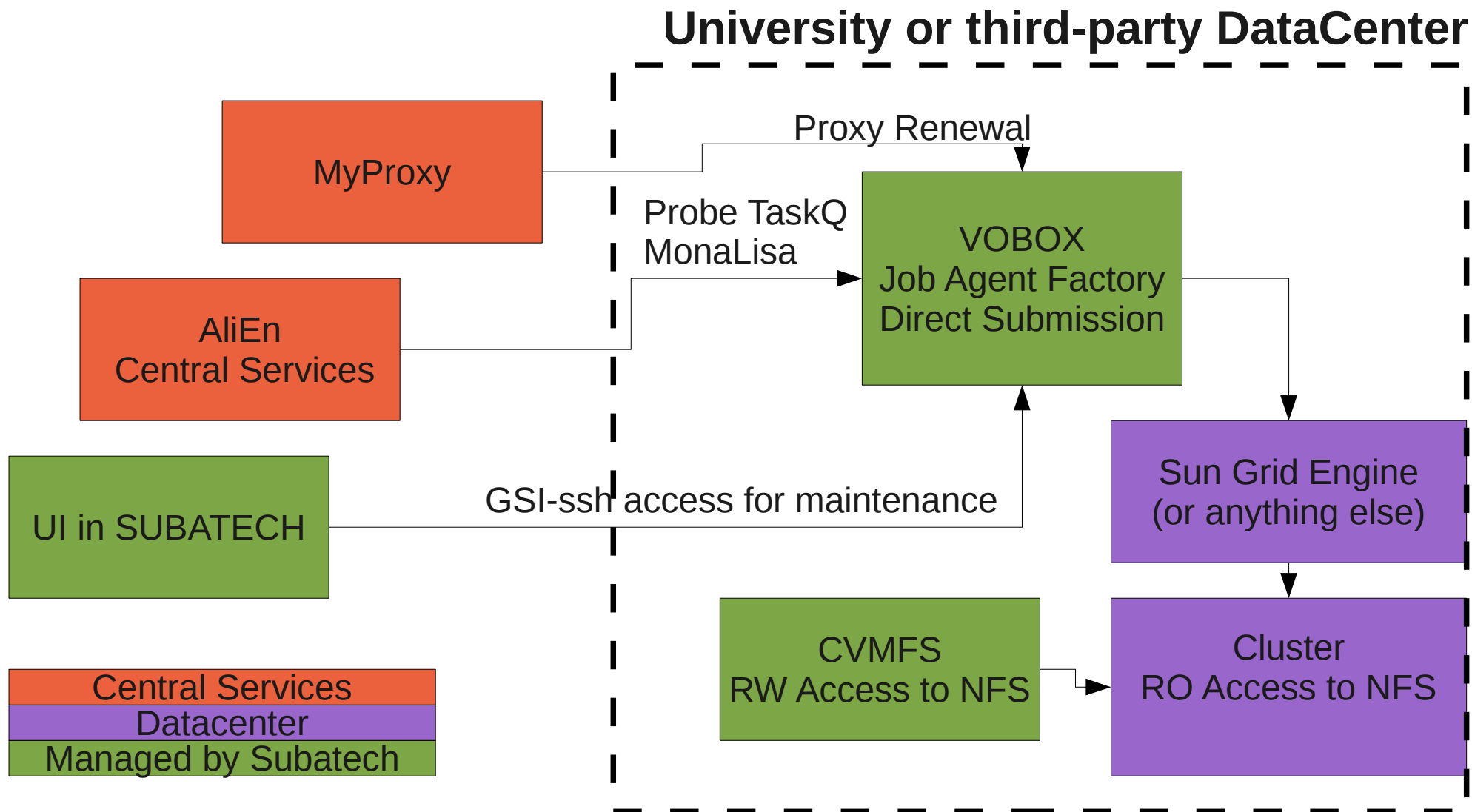
Case of a shared facility : Issues & Limitations

- We do not always master the environment :
 - Linux can be SUSE, Debian, 32bits ... Windows :-)
- We cannot ask to install too specific things (or install in userland)
- Network bandwidth might be limited or shared with other users on the campus
- We cannot expect xrootd/EOS storage on site
- Remote facility (~8Kms from the lab)

We would need :

- Be able to start Job-Agents without installing a CREAM-CE on site
- Have a valid proxy for alien-token-init
- Middleware ?
 - what is the minimum required for a non-LCG site ?
- Access to Alice Software
- A way to run only MC-production Jobs ?

Possible solution



Details

- Need one production account in DataCenter
- Not necessarily whole-node scheduling
- No CE, no Grid site, not in GOC-DB, not in LCG/EGI, no LCG accounting, no SAM monitoring,... OK ?
- Minimum usage of middleware (proxy only?)
- Vobox and CVMFS merged into one box ?
- Job Agent should not try to GLexec

Discussion

- Does it look feasible ?
- Would it be supported by Alice ?
- 2nd VOBOX implies distinct AliEn site ?
- What kind of agreements/policies to put in place ?