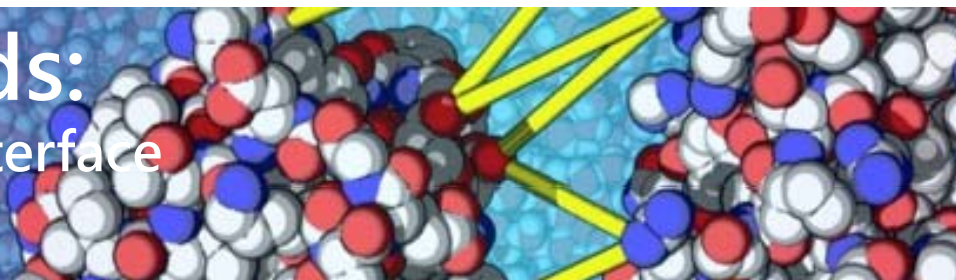
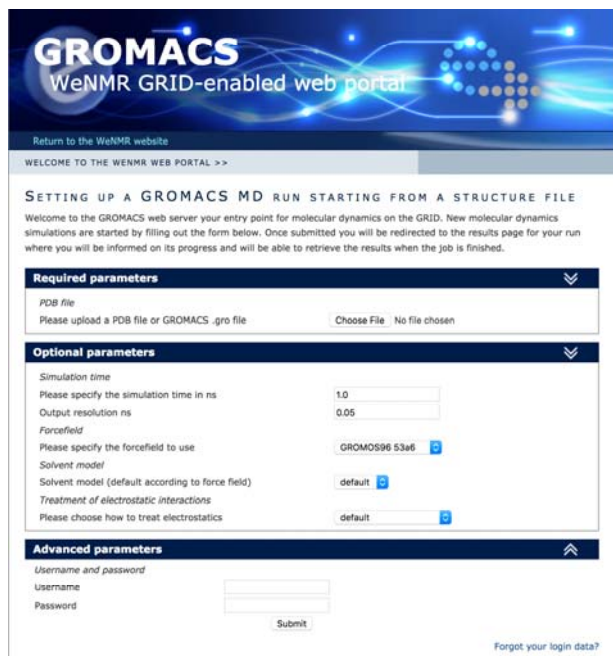


GROMACS in the clouds:

A portable and user-friendly web interface to EGI HTC grid and cloud resources

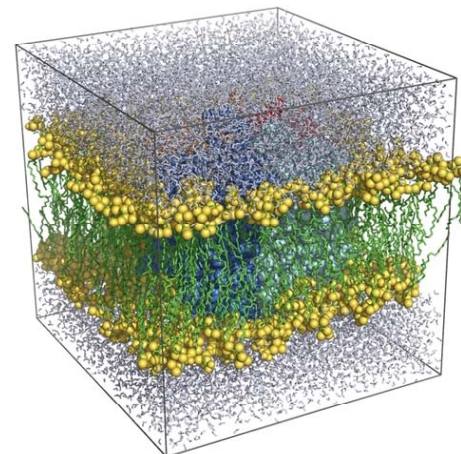
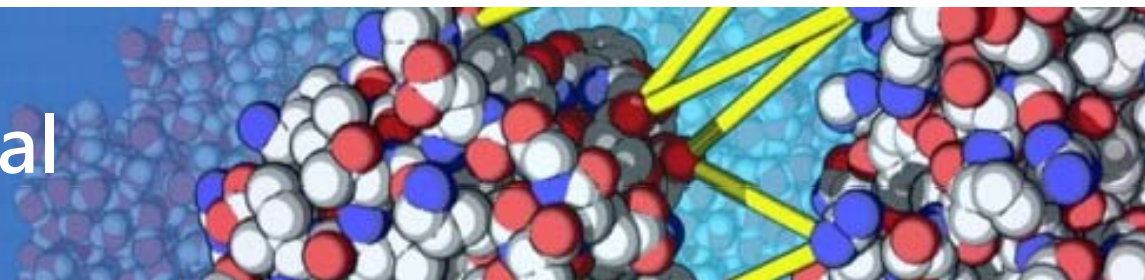


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DIRAC4EGI → Solution to replace **gLite-WMS** if no longer supported

GROMACS web portal



Web interface for GROMACS4.5 (5.1 soon in production) :

- No installation needed, web-browser only
- Starting from structure or binary file
- Exhibits** both **basic** and **advanced** GROMACS parameters
- Status** monitoring
- Post-processing** analyses
- Possibility to **extend trajectory**

Bringing simplicity to users and infrastructure managers



Automatically handles (transparent for user):

- Authentication/authorisation (VOMS)**
- Information system (BDII)**
- Resources status system**
- Pull job model** allowing:
 - Coherent runtime environment
 - Late binding for load balancing
 - Job resubmission policies
- VM management**
- Data access / storage (SE)**

Provides:

- Access to academic private clouds and virtualised resources**
- Total control** of deployed **applications**
- Elastic** resource consumption based on **real need**
- Immediately** processed workloads

IN THE FUTURE:

