eGee

Enabling Grids for E-sciencE

GRIF site report

GRIF Team

Information Society
and Media

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Enabling Grids for E-sciencE

- **1 unique grid site** with HW AND technical team spread over several locations

- **Large autonomy of each site** regarding local integration of grid resources, grid services, OS versions used, shared/non shared home directories...

- **1 common version of grid MW everywhere but ability to upgrade site by site** (ability to run different versions).

- **2 key organizational choices :** **Quattor with one configuration DB** for the whole site and **one technical team** with 1 face to face meeting every month + everyday communication through an email list.

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GRIF
Grille au service de la
Recherche en Ile de France

- **Quattor configuration based on QWG Templates** (originally developed at LAL), a standard set of templates for configuring grid services shared by 40 sites. Benefit from others' developments and our additions for GRIF needs shared with others.
- **Quattor allows high level of load sharing for management tasks like MW upgrades (+ rollback capabilities). Try to install gLite updates in the week after the release (less for high priority). Generally done by one person for the whole site.**
- **Some services are unique :**
  - VOMS server
  - LCG RB
  - Myproxy server
  - Top BDII
  - LEMON server
- **One service has a backup :**
  - Site BDII (with one sub-site BDII per GRIF site)
- **The sites do not support the same set of VOs**

- **Quattor (installation and configuration)**

- **Nagios/Lemon (monitoring and alarm mechanism)**

- **Local grid support (helpdesk/Wiki) focused on local users' assistance (in particular new users). Avoid duplication with GGUS**

- **Standard grid tools for monitoring and assistance : SAM, GGUS, CIC Portal, experiments monitoring, mailing lists**

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- **Scheduled interventions**

  – Electricity/Security maintenance

  – machines update : hardware and software (depends of updates)

  – network update : hardware

- **Unscheduled interventions**

  – "(unbackuped) DPM databases)"

  – Network instability

  – Cooling problems

  – Electricity cuts

- **How it is detected at our site:**
  - by **local/remote users** (mail, toc toc at the door, phone) :80%
  - by **SAM tests** (alarm mail by the CIC: very useful):10 %
  - **COD** via GGUS ticket (after a weekend): 5%
  - by **sysadmin** (job submission, LEMON, network): 5%
- **Correlation of cross-site issues :**
  - SA1-fr, LCG-fr **Visio conference**, very useful for this
  - SA1-fr and LCG-fr **mailing lists**
  - **LCG-ROLLOUT**
  - **EGEE broadcast**
- **Participation in the "System Management and Monitoring" working group of HEPiX**

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- **Support appreciated at our site:**
  - **LCG-ROLLOUT**
  - **GGUS**
- **ROC help on coordination and some services**
- **what features are missing to make our work easier:**
  - **search engine on the CIC portal** on specific recognized grid pages
  - Diagnostic tools