



Enabling Grids for E-scienceE

Pole 3 : COD Tools Parallel session

Cyril L'Orphelin

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- Failover mechanisms for GSTAT, SAMAP, CIC and GOC should be achieved quickly
 - CIC : the copy of database in CNAF is not enough ,currently we need a downtime to do the recovery of data .
 - No real critical services into read only mode (maybe we can add statistics about % of read and write requests)
 - Automatic failover with a read-only copy in CNAF
 - *Frequency of refresh of data ?*
 - *Automatic mechanism with nagios (to change DNS)*
 - *Automatic synchronization of Lavoisier and Web part.*
 - GSTAT
 - *Done (automatic failover on going)*
 - SAMAP
 - *Done (automatic failover on going)*
 - SAM
 - *2 interfaces of submission*
 - *3 RB*
 - *Problem with certification update, several instances to update*
 - *Future model with bus messaging => avoid a single point of failure*

- **Phone meeting: Alessandro, Christian (ITWM), Gilles, Osman**
- **Tested ITWM GOCDDB web with CNAF DB:**
 - The web gives a blank page, error message in the logs
 - Reason: only data replicated, Oracle procedures are not replicated
 - **ACTION (GM, AC):** share the same Oracle account used by MAIN GOCDDB, and replicate all through this account
- **ITWM Web update policy:**
 - yum update with RAL server (daily)
 - Worked pretty well for last year
- **Failover scenario:**
 - When/how/what to switch
 - LDAP DB connection method:
 - provides the possibility to instruct the GOCDDB customers to use Master or Replica DB
 - LDAP has master/slave feature for failover.
 - **ACTION (GM):** check if LDAP server can be installed at RAL (with backup on another site)
 - **ACTION (GM):** Introduce a flag to mark MAIN and BACKUP webs. Needed to identify that MAIN is Read-Write, and BACKUP is Read-Only on DB. Verify that configuration files are tagged properly in RPM, to avoid also this flag to be overwritten.
 - **ACTION (AC):** list all the use-cases: now, with just TNSNAMES.ORA, and future with LDAP
 - **ACTION (AC, OA):** investigate on GOCDDB-DISCUSS what are the connection method used by all the GOCDDB customers: JDBC, ADODB, etc.
- **Frequency of GOCDDB update**
 - **ACTION (GM):** provide the metric: how many times x day is it updated (written) GOCDDB?
 - CNAF DB is only 9 MB. If it's really so, it can be refreshed more than daily, probably very frequently

- Top-BDII : there are some developments around failover at the level of clients . Finally Top-BDII name should be extracted from information system
- Another Suggestion : distribution of Top-BDII among different sites . Monitoring by Nagios which updates the DNS .
- VOMS servers : already in place , we need some details on this replication .
- LFC : replication with project 3-D
- We will study between France and Spain what could be the core services “replicated” and how .
- Propose and study also solutions of failover at the site level (clustering , virtual machines ...) .

- **Objectives :**

- Short terms :

- Evolution towards N regional instances + 1 specifically dedicated for C-COD. Incl Alarm weighing mechanism.

- Medium terms :

- Study the merge of GOC DB and CIC portal via a common interface

- For EGI :

- Deliver a package of a “light CIC Portal “ for region
- Deliver a package of services (OAT presentation)

- From discussion with COD people :

- Add the possibility to open ticket against Grid Ops Tool into dashboard
- Add a link into handover log to GGUS metrics and also a template .
- Modify the default template of tickets to specify a place to put error message .

Immediate Actions :

- Propose another questionnaire to ROC , to know which tools they will use , which they will operate , what constraints they will have (example : Oracle license) .

- Study what structure will be used :
 - Central repository with local caches
 - Local repository with local caches ...

- From the discussion with SAM
 - **SAM - gRB sensor (savannah 32100) – on going with SAM**
 - **SAM - MyProxy sensor (savannah 32615) – on going with SAM**
 - **SAM - interface to show historical SAM results (savannah 6665) SAM will provide only the schema of the database / Are we suppose to develop our own interface ?**
- Identified Issues
 - **Core services failures**
 - developers - OAT does not intend to deal with requests to JRA, they probably need to be done in "one-to-one" manner.

- **Update the Actions list**
 - https://twiki.cern.ch/twiki/bin/view/EGEE/COD_EGEE_III
- **Update the different description of sub group :**
 - https://twiki.cern.ch/twiki/bin/view/EGEE/Pole_3
- **Organization**
 - 1 coordinator
 - 1 responsible for failover => Alessandro (also backup for coordination)
 - 1 responsible for TIC => Malgorzata ?
 - Integration of tools into EGI => one representative per tool
 - Creation of mailing lists ? One per pole ?