

Information System Open Issues

Alessandro Paolini, Paolo Veronesi

1st December 2011



- Known Issues
- Frequent Problems
- Glue2 remarks
- Open Issues

- Site-BDII:
 - Installation of openldap 2.4
 - Add in the site.def “SLAPD=/usr/sbin/slapd2.4”
- Top-BDII:
 - /etc/cron.hourly/generate-fcr-exclude-file.
 - This file does not exist in the topbdii after install and yaim configuration
 - Missing /etc/bdii/gip/glite-info-site-defaults.conf
 - Post-configuration workaround needed

- Performance/Load issues: memory leak, stuck processes
 - often solved by installing openldap2.4, but some of them have to be well investigated
 - openldap2.4 isn't installed by default yet
- Past issues:
 - bdii user change from "edguser" to "ldap"
 - enabling the start of bdii daemon and disabling the ldap one when a machine boot

- Recommendation for site-bdii:
 - small/medium sites: at least one instance with 2 cores, 10GB Hard disk space, 4 GB RAM, no XEN virtualization (see later).
 - medium/large sites: more than one instance, DNS round robin based. The same setup used for top-bdii is recommended (details at [EGI Operations Manuals 5](#))
- Recommendation for top-bdii:
 - More than one instance, DNS round robin based, details about top-bdii high availability setup at [EGI Operations Manuals 5](#))

- It isn't still clear when Glue2 will be used (GSTAT still checks Glue1.3 information)
- we don't know how the information are coherent.
 - We should check the information already published and find out any anomalies in advance
- Operational issue: since **Glue2** is **case sensitive**, if the site-name case published by the site-bdii and the one set in **Giis_Url** field on GOC-DB is different, that site won't be published by top-BDII's
 - see: https://ggus.eu/ws/ticket_info.php?ticket=75529
 - Opened several tickets to the affected sites

- **glite-BDII hangs under heavy network load**
 - https://ggus.eu/tech/ticket_show.php?ticket=71578
- the installation of openldap2.4 should have solved the problem
 - but the ticket is still "on hold" status because there is a feature request to detect the hanging issue using the status command

- **Ramdisk space usage on top BDII**
 - https://ggus.eu/tech/ticket_show.php?ticket=73102
- the usage of ramdisk space kept increasing and eventually full in about two or three weeks (top BDII on a XEN virtual machine)
 - adding `dncachesize` into `/etc/bdii/bdii-top-slapd.conf` and setting it to double of `cachesize` makes slower the **memory usage increment**, but it **doesn't limit it**

- **emi-bdii-top-1.0.0-1.sl5.x86_64 packaging issue**
 - https://ggus.eu/tech/ticket_show.php?ticket=73823
- two issues in this ticket:
 - "**chkconfig bdii on**" to start up the BDII at **boot** => solved using the new glite-yaim-bdii, release with EMI 1 Update 6
 - the file `/opt/glite/etc/gip/top-urls.conf` still ends up in `'/opt/glite/etc'` rather than `'/etc'`.
- It is created in
 - `/etc/glite/glite-info-update-endpoints.conf`
 - rpm is `glite-info-update-endpoints-2.0.7-1.el5.noarch`

- **bdii memory leak**
 - https://ggus.eu/tech/ticket_show.php?ticket=73840
- updated to glite-BDII_top 3.2.12 and increased the VM memory to 4 GB. The situation improved but still after few days the memory usage keeps increasing.
 - in the file /etc/bdii/DB_CONFIG suggested to comment out the following lines:
 - #set_flags DB_LOG_INMEMORY
 - #set_flags DB_TXN_NOSYNC
 - the memory usage was reduced considerably; it isn't still clear which process causes the increase of i/o load

- **bdii tmpfs fills up and silently fails**
 - https://ggus.eu/tech/ticket_show.php?ticket=76337
- The tmpfs filesystem used by the top level bdii slowly fills up over time.
- Once completely full, no updates are done, 'service bdii status' still reports OK, but the org.bdii.Freshness check report a problem.
 - This probe has been recently added to the site-bdii instance probes used in the SAM framework

- Information present also on DMSU wiki:
 - https://wiki.egi.eu/wiki/Information_System_Open_Issues