

## NCSA/UIUC OSG Quarterly Report (Q2-2008)

### Troubleshooting

#### Key accomplishments:

- LIGO reported that the matchmaking service was incorrectly not listing a number of sites that support them. We discovered the problem as being caused *missing classads* which ReSS was not receiving from the site even though CEMon was running and correctly reporting to BDII. A number of these problems were caused by the “tomcat” user not having access to `http{cert,key}.pem`, due to erroneously set permissions. We followed up with each site and track down problem source.
- We started an effort to *identify and address few OSG usability problems*
  - This effort aims to proactively identify challenges, foster discussion and implement solutions to improve the usability of the OSG infrastructure.
  - <https://twiki.grid.iu.edu/twiki/bin/view/Troubleshooting/TroubleshootingVOProblems>
  - Example problems include
    - Problem with `grid3-locations.txt`, for advertising VO applications securely.
    - Lack of an unified, reliable OSG resource status information.
  - We will continue the work on the issues we have identified.
- *Updated troubleshooting FAQs* to disseminate knowledge gained from our troubleshooting tasks. The current version of the FAQ can be found at <https://twiki.grid.iu.edu/twiki/bin/view/Troubleshooting/TroubleshootingFAQ>.
- Anand traveled to BNL to attend the annual user's meeting and *convened a troubleshooting session* focused on providing a user-centric view of OSG troubleshooting.
- We helped Britta *debug why voms-proxy-init was failing* on one of the LIGO submit hosts.
- In April, LIGO reported having problems running their workflow at TTU-ANTAEUS. We designed a number of tests to isolate the problem. With the tests we identified, the problem was prevalent only when using the Luster file system and worked with the resource administrator to associate the problem with a part of LIGO code.
- We helped GROW-UNI-P to debug and resolve problem caused by accidental deletion of CRL during a manual update process
- *Participated in the 0.9 integration cycle* to troubleshoot problems on ITB.
  - We *validated opportunistic storage* from the perspective of small VOs.
    - Discovered bugs in both `fnal` and `lbnl` `srm-client` tools. These bugs have hence been fixed in the latest VDT release
  - Participated in testing and validation of the security update on 0.9.1 ITB and 0.8.0 OSG install.
  - Worked with Tony on testing and debugging GIP using PBS batch system. We helped identify couple of problems occurring when PBS batch system was used without a storage element.
  - Discovered a bug in ITB 0.9.0 Gratia configuration process that was resulting in an empty `ProbeConfig`. The `configure-osg.py` had a bug that was causing the `probeConfig` to be blown off. We worked with Suchandra identify to test the solution.
- We helped Jing Tie's (OSG VO user) with identifying the root cause of problems she was encountering on OSG.
- As a part of the campaign to help resource administrators, we helped Ian Stokes-Rees with issues he was experiencing with new 0.8.0 OSG installs.

#### Milestones completed:

- Designed survey questions and send them to user group coordinator. The next user survey will have a section designed to solicit feedback on troubleshooting activity.

## Security

### Key accomplishments:

- Represented OSG at TAGPMA and EUGridPMA meetings.
- Represented OSG at JSPG meetings.
- Investigated proxy credential cleanup in OSG:  
<https://twiki.grid.iu.edu/bin/view/Security/ProxyCleanup>
- Gave input on LIGO security design under development.
- Conducted a survey of current OSG incident response communication practices, made recommendations, and began implementing them:  
<https://twiki.grid.iu.edu/bin/view/Security/IncidentResponseCommunication>
- Defined an incident response process for OSG:  
<https://twiki.grid.iu.edu/bin/view/Security/IncidentResponseProcess>
- Assisted with response to Debian OpenSSL vulnerability.
- Participated in the newly formed International Grid Trust Federation (IGTF) Risk Assessment Team on behalf of OSG.

### Milestones completed:

- OSG incident response process defined and submitted for Executive Board review.

### Staffing status:

- Basney has been working at 50% time since April 1.

### Concerns and Issues being Worked :

- Discussions are ongoing regarding coordination with EGEE on incident response.