



OSG Area Coordinators

Network Monitoring Update: March 2013

Shawn McKee

Key Initiatives in Network Area

- OSG modular dashboard service
 - Progressing in GitHub: <https://github.com/PerfModDash>
 - Alpha release “now” (end of March). Target this for OSG test
- Improving perfSONAR-PS toolkit for OSG
 - Awaiting final v3.3 perfSONAR-PS release (time is ~NOW) (Re)Packaging toolkit for OSG users/others?
 - May require minor repackaging for OSG: Add integration with OSG services and coupling to OSG Dashboard
 - Advocating/supporting deployment at OSG sites begun. Need 3.3 released before it makes sense to push non-LHC sites
- Documentation updates: network tools & troubleshooting
 - New draft “triage” document to point OSG users at: <https://www.opensciencegrid.org/twiki/pub/Documentation/NetworkingTroubleShooting/20130204-OSG-Debug-SPM.docx>

Top Concerns

- The modular dashboard effort needs more involvement
 - Currently have Tom Wlodek and Soichi. Lucy is working on her thesis. Not much involvement from others (Ian Gable, Andy Lake, others)
 - Still possible to get some involvement from ESnet/Internet2 but hasn't materialized. **Perhaps functional release will help?**
- Getting an OSG Network Service prototype in place
 - Soichi has been looking at the current dashboard
 - Plan is to use “alpha” release to initiate an “alpha” OSG service instance
 - Important to verify the OSG installation can still meet the needs of external “clients”. May require some deployment modifications and/or API changes.
- Addressing other aspects of OSG Network Services
https://www.opensciencegrid.org/bin/view/Documentation/NetworkingModularDashboard#Planning_and_Subgroups
 - Met at OSG meeting Good discussion about dashboard work and how best to setup users/security. Implies some changes from our original plan. Basically the datastore should protect itself but “call-out” to authN/authZ services that should exist at installation site.

Recent Accomplishments

- Testing of perfSONAR-PS v3.3 rc1 and rc2
 - The 'rc1' test turned up some minor issues.
 - So far 'rc2' looks good. Targeting 'rc3' this week

<http://code.google.com/p/perfsonar-ps/issues/list?can=2&q=Milestone%3DRelease3.3>

- perfSONAR-PS “Mesh” configuration testing as part of ‘rc2’ deployments and back-ported via patches to v3.2.2
 - Minor problems found in mesh-config “include” functionality.
 - Addressed in release v3.3 version
- Initiated discussions between OSG and WLCG about how to handle perfSONAR-PS registration and metric information flow correctly.
 - Plan is to do something similar to what is already being done for other services and metrics.
 - WLCG working on “primitive” perfSONAR-PS service tests
 - Will be adopted for OSG to ensure service status reporting works
- Dashboard almost ready to use in “alpha”; snapshot at:
<http://perfsonar.racf.bnl.gov:8080/PsDisplay-1.0-SNAPSHOT/clouds.jsp?id=6>

Near term items

- Complete testing perfSONAR-PS 3.3 releases to get to “final” release. Then -> OSG distribution?
 - TBD whether repacking is needed/useful at this point
- Expediting a functional Modular Dashboard (~1 week?)
 - Need to have something that gathers / displays results
 - Becomes ‘alpha’ OSG service for testing service issues
- Implement OSG->WLCG “reporting” on perfSONAR registrations and metrics
 - Task is understood but we need to actually get it working
- Find test “clients” for OSG dashboard API access
 - Alex Sim and Gabriele Garzoglio expressed interest...others?
 - Needed to verify installed OSG service appropriately accessible
- Documentation updates and additions
 - Continuing to document procedures, how-tos and (eventually) tools provided by OSG.

URLs of Relevance

- Modular Dashboard Development
<https://www.opensciencegrid.org/bin/view/Documentation/NetworkingModularDashboard>
- Network Documentation
<https://www.opensciencegrid.org/bin/view/Documentation/NetworkingInOSG>
- Initial OSG networking meeting notes
<https://twiki.grid.iu.edu/bin/view/Networking/WebHome>
- perfSONAR-PS WLCG/OSG Installation Instructions
<https://twiki.cern.ch/twiki/bin/view/LCG/PerfsonarDeployment>
- perfSONAR-PS Tips, Tuning and Best Practices
<http://www.usatlas.bnl.gov/twiki/bin/view/Projects/LHCperfSONAR> (will migrate to OSG documentation pages eventually)

Questions or Suggestions?

Thanks