

# Technology Investigations Update

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# Goals from Last Time

- With OSG Security, plan for certificate-less glEXEC. **NO PROGRESS** - Requirements document written, but implementation has not been set in stone.
- Finish GRAM turn-down (USCMS T2s in gWMS factory). **LITTLE PROGRESS** - Remaining sites have known issues (for example, new sysadmin). New USCMS T2 coordinator is now tracking this. Will drop this item in future.
- NoVA uses StashCache for September production run. **DELAYED**. Got the timing of the production run incorrect at least meeting.
- 40 services in the OSG Collector. **DONE**:
  - 35 CEs in production collector.
  - 2 StashCache servers in production collector
  - 4 CEs in ITB.
  - 2 CERN CEs awaiting configuration tweak in ITB collector

# HTCondor-CE & Info Service

- CERN is evaluating use of HTCondor-CE for their next-generation batch system service (HTCondor-based).
  - Two HTCondor-CEs are available to WLCG VOs for evaluation. For ATLAS & CMS, this will likely be simple. For LHCb / ALICE (who have never used HTCondor), perhaps not so simple.
- 35 HTCondor-CEs reporting to production collector. First StashCache server now present!
  - With CERN, developed a script to convert OSG Collector information to GLUE2.
  - Note I don't plan to offer support or this as a service - idea is to help bootstrap external entities retrieve the data in a familiar format.
- BDII removal for USCMS is still causing churn within WLCG. Working with upstream.
  - Will be presenting at the relevant task force meeting tomorrow.

# OASIS

- OASIS 2.x series continues on with better monitoring, less deployment issues.
- At today's OASIS meeting, we (Technology, Operations, Software) agreed on a proposal for automated client configuration updates.
  - Utilize a mechanism called “configuration repository”. Long-term, OSG only distributes this repo in the config RPM; all other configurations come from the repo itself.
  - Medium-term, this will be used for new, non-OASIS repositories.

# StashCache

- All components are still deployed at the ~alpha level.
  - Robert Illingworth is doing a lot of “eating the dogfood”. We have a NoVA workflow that we can repeatedly run until everything works. Presented the results to NoVA this Monday.
- Derek Weitzel is currently working on getting continuous testing setup based on the Jenkins instance at OSG-Connect.
  - Ideally, this provides a nightly “green light” / “red light” view of all the components of the system. Very useful when still bootstrapping.
- NoVA production run is getting pushed back in the calendar. Will hopefully have something to say about that next meeting.
  - Still looking for a few good OSG User Support users.
- New investigation: StashCache-over-CVMFS has not started in earnest due to lack of cycles.

# Other Items

- Certificate-less glexec: no progress since last time.
- Review of OSG-Flock HTCondor setup. Edgar F is scheduled to do some serious testing second week of September.
- Derek Weitzel started full time. In addition to StashCache item mentioned, would like to get him going on OSG-CE-BOSCO.
- OSG-CE-HPC use case at SDSC evaporated. Should we mothball this?

# Goals for Next Time

- 40 services in the OSG Collector.
- NoVA uses StashCache for end-2015 production run.
- (Carry-over) With OSG Security, plan for certificate-less glexec.
- Have a plan and prototype of the OSG-CE-BOSCO.

# gfactory Appendix

- This is the query used to determine CE / site counts:
- ```
comm <(condor_status -any -pool gfactory-1.t2.ucsd.edu -wide -const 'MyType=?="glidefactory" && GLIDEIN_GridType=?="condor"' -af GLIDEIN_ResourceName | sort | uniq) <(condor_status -any -pool gfactory-1.t2.ucsd.edu -wide -const 'MyType=?="glidefactory" && regexp("gt[25]", GLIDEIN_GridType)' -af GLIDEIN_ResourceName | sort | uniq)
```