



WLCG Technical Forum update

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Multi-user pilot jobs working group

- Started right after December GDB
- 59 members, others welcome
 - <http://groups.google.ch/group/wlwg-tf-pilot-jobs>
- Almost 200 messages so far
- Summary Wiki went through 6 versions
 - [https://wlwg-tf.hep.ac.uk/wiki/Multi User Pilot Jobs](https://wlwg-tf.hep.ac.uk/wiki/Multi_User_Pilot_Jobs)
 - To view that page the browser needs an IGTF cert loaded
- Questionnaire sent to T1+T0 representatives Monday
 - Majority of responses expected in 2 weeks
 - Further activity foreseen in the WG → recommendations



Summary Wiki (1)

- 1. Introduction
 - What are pilot jobs?
 - Single- vs. multi-user pilots
 - What is glexec?
- 2. Boundary conditions
 - Mainly JSPG policies
 - http://www.jspg.org/wiki/JSPG_Docs
 - Some adjustments could turn out to be desirable
- 3. Benefits of pilot jobs compared to "classic" jobs
 - Also single- vs. multi-user pilots



Summary Wiki (2)

- 4. Issues for efficient/correct scheduling of pilot jobs
 - A single class of pilot jobs may not be a panacea
- 5. Drawbacks of multi-user pilots
 - Mainly issues surrounding glexec
- 6. Multi-user pilot jobs with identity change
 - Pro: complete separation of users
 - Con: setuid complications
- 7. Multi-user pilot jobs without identity change
 - Pro: no setuid complications
 - Con: incomplete separation of users



Summary Wiki (3)

- 8. Legal considerations
 - Some sites may have more constraints than others
- 9. Virtual machines
 - Will simplify matters



Questionnaire

1. Does your site policy allow the use of multi-user pilot jobs by the LHC experiments you support? (no/depends/yes)
 - If no, why?
2. Does your site policy support the use of glexec in setuid mode? (no/allow/require)
 - If no, why?
3. Does your site policy support the use of glexec in log-only mode? (no/allow/require)
 - If no, why?
4. When glexec returns an internal error (e.g. SCAS/Argus/GUMS temporarily unavailable), does your site policy allow the pilot to continue and run the payload itself? (no/depends/yes)
 - If depends, on what?



Upcoming activities

- Jean-Philippe Baud proposes 2 WG:
 - Storage quotas
 - Not easy
 - Storage accounting
 - Disk/tape usage
 - Replicas
 - I/O usage
- Andrea Sciabà proposes 1 WG:
 - Data access efficiency
 - Short term: best practices
 - Medium term: fewer/better protocols
 - Consolidate efforts ongoing in the experiments since STEP'09
- Initiatives can be proposed in the Forum
 - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGTechnicalForum>