

Pilot jobs & policy





Policy

- Two years ago we (WLCG) agreed:
 - "WLCG sites must allow job submission by the LHC VOs using pilot jobs that submit work on behalf of other users. It is mandatory to change the job identity to that of the real user to avoid the security exposure of a job submitted by one user running under the credentials of the pilot job user."
- But there were pre-requisites for the policy to come into force:
 - Security review of glexec: done
 - Review of pilot frameworks: done
 - Glexec tested with all needed batch systems: done
 - SCAS completed, certified, deployed: not deployed
 - NB. forgot glexec deployed: not done!
- There is a MUPJ JSPG policy:
 - https://edms.cern.ch/file/855383/2/PilotJobsPolicy-v1.0.pdf
 - Approved in Aug and Sep 2008 by WLCG and EGEE respectively
 - This states that the VO must obtain Site approval before submitting MUPJ (i.e. optional from the site point of view)
 - It also states that the pilot framework must meet the requirements of finegrained traceability, e.g. via identity switching.



Implementation & Deployment

- Takes forever ...
- glexec:
 - Has been available in SL4 for some time, but we need SL5
 - Several glexec-SL5 patches failed in certification and had to be sent back to developers
 - glexec/SL5 is now certified
- SCAS on SL5:
 - Has been a long time coming
 - Passed certification and started roll-out (but very recent!)
- While sites have been encouraged to deploy glexec/SCAS they have also been urged to move to SL5 and so lack of deployment of glexec/SCAS is understandable



Situation now

- Sites have not been able to deploy glexec/SCAS until now to support the implementation of the policy
 - Not their fault
 - Anyway, is now the time to add such critical services?
- Experiments need to run MUPJ to support their analysis
 - But adaptations to glexec/SCAS have not been fully implemented/tested (see above!)
 - Anyway, is now the time to make such changes in essential software?

But:

- The experiments need to process and analyse data according to the ways that they have been preparing
- The sites need to be able to manage their security



Proposal

- In the absence of any deployable fine-grained authentication mechanism that the experiments can make use of now I propose:
- Establish a policy that:
 - Permits the experiments to run pilot jobs that run workloads of other members of the VO
 - Agrees that the owner of the pilot job or the VO itself is responsible for all work run by that pilot job
 - i.e. in case of problems the entire VO may be banned at a site
 - The VO framework should provide the fine-grained traceability
 - This policy must be reviewed in xx months, or earlier if there are operational issues
 - During this time the existing JSPG policy would need to be suspended (?)
- We must continue to push the deployment of glexec/SCAS as rapidly as possible to be in a situation to implement the agreed policy at the earliest opportunity.