

PROPOSAL

From the previous doc oasis.pdf:

So I now think OASIS 2 is over-engineered, and with no very good result anyways, as described. However, a very simple and elegant solution has already become clear: using condor. So I propose re-design OASIS based entirely on condor. The login processes would be thin wrappers around `condor_submit/condor_q/condor_history`. The already existing daemon for the repo host would almost disappear and be replaced by the `startd`. Things like the timeouts are embedded in the `periodic_remove` expression in the `condor_submit` file. Serialization comes for free, so no more problems on how to ensure FIFO-behavior in the code.

And extra advantages. The login can be remote. For example, it can be at FNAL. But the server still at the GOC. We would need to figure out the security part. So people can have their login hosts at home, having their own auth/auth mechanisms as they please, but still the difficult part would happen at GOC. And they don't need to maintain the CVMFS server.

QUESTIONS

There are a few questions I have not figured out yet completely. These are the first ones. Probably there are more.

1. should the `startd` run directly at the server host or at the login host? In principle, running at the login host does not fix anything...
2. should the jobs write files directly into `/cvmfs/` or in a scratch area first and then `rsync`? Reason for this question is how to avoid future problems if OASIS is used for other technologies other than CVMFS where writing directly into the distribution filesystem triggers automatically the publishing.
3. if writing in the scratch area first, how to do it with the right UNIX ID `'ouuser.$VO'`?
4. how to make the jobs to run as the proper UNIX ID? At the server is `'oasis'`.
5. how to configure each `startd` to run jobs only for a given repository? So we can have one `startd` per repo...

6. how to create a tarball properly at the login host (in particular if it is a remote one)? Will be a scratch area always synch'ed needed?
7. how to transfer that tarball to the startd host? As a condor input file? Even when it is too big?
8. is there any deadlock to run the probes if running the startd directly at the server host?