OSG Technology Investigations

Area Update, 13 November
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Personnel Overview

- New hire at UNL! Marian Zvada has started working for the Technology Investigations area at a level of .5 FTE.

  - Marian currently works in Europe (has started working remotely) and unfortunately will not be able to relocate to the US until end-January.

- Travel and CMS constraints have severely drained "productive time".

  - I have been traveling (at least partly) for 5 of the 9 weeks since the last report. In fact, I'm at an airport right now…

  - CMS also handed me a task to convert a large project to HTCondor/glideinWMS 5 weeks ago (and due this morning).

  - Accordingly, my OSG Technology time has mostly been "treading water". Apologies for all the unwritten emails and emails without responses.

- With the added effort and decrease of travel / CMS back to normal, the next 8 weeks should be far more productive.

Key Work Items

- HTCondor-CE improvements stalled out in the last month. In particular, OSG Software is stuck on HTCondor-CE / PBS.

  - Marian is coming up to speed and will be the primary effort here going forward.

- The OASIS service is continuing to mature.

  - There have been many operational lessons. Even when there are "fires", there has been little user impact.

  - We have a prototype of v2; we'll be meeting in Indianapolis tomorrow to figure out how to get it out the door.

  - Trying to improve organization of this project.

Upcoming Issues

- The cloud discussion mentioned in the last update has borne a proposed "Resource Provisioning Service". The scope and work package is going to be determined at FNAL in two weeks.

- No progress has been made on gLite WMS support issues. gLite WMS support at CERN drops soon! If we had more effort available, a strategic investment would be to add HTCondor-G / glideinWMS support to DIRAC.

Collaborations

- HTCondor:

  - RPM delivery of BOSCO and improved job monitoring are a part of 8.1.2.

  - "Shared data" project is currently on hold (and perhaps cancelled) due to Dan Bradley's new position at Wisconsin.

  - Improving file transfer plugins has taken a back burner to IPv6 improvements; likelihood of this getting finished before 8.2 has not improved.

  - We are working with HTCondor to improve monitoring and throttling for submit nodes.

- glideinWMS:

  - 3.2.1 delivers packaging improvements OSG requested.

  - No progress on "condor_q -analyze" equivalent for glideinWMS.

  - Luckily, glideinWMS requests from OSG and CMS seem to have a large amount of overlap. Hopefully this means some of our monitoring requests will get resolved.