Alberto Aimar

From: Oliver Keeble
Sent: Monday, October 06, 2008 2:52 PM
To: worldwide-lcg-management-board (LCG Management Board)
Subject: middleware planning and delayed startup

Hi,

I was asked to summarise how gLite middleware deployment planning could adapt to the delayed LHC startup. Below are the possibilities with suggested targets (for a CCRC which would not be earlier than Feb).
Priority should be given to potentially disruptive changes, and my own opinion is that attempting to do everything on this list would be over-ambitious.

This is all due to be discussed at the GDB this week and Markus will be at the MB tomorrow.

* VDT1.10
Status - The SL4 release of gLite is based on VDT1.6. The SL5 release will be based ultimately on VDT1.10. We could upgrade the SL4 version to 1.10 too. This would require a rebuild and retest of all components.
Target - upgrade of gLite3.1/SL4 to VDT1.10.

* FTS/SL4
Status - A problem has been found in the recent SL4 release (undeployed) so a fixing iteration will be necessary.
Integration will set up an SL5 build to get an idea of its potential but its deployment is not currently the plan.
Target - full deployment of 2.1 on SL4

* WN/SL5
Status - FIO now has a first installation at CERN, which will be tested by the experiments.
Target – available on the infrastructure in parallel to SL4 We should also continue to pursue the python2.5 and alternative compiler stuff, but this can be added subsequently.

* Multiple parallel versions of middleware available on the WN Status - at the moment it is not easy to install or use multiple parallel versions of the middleware at a site. While the multi middleware versions and multi compiler support are not disruptive, they require some changes on the packaging side and a small adaptation on the user side.
Target - it seems advisable to introduce this relatively shortly after the bare bone WN on SL5.

* glexec/SCAS
Status - still nothing delivered to certification.
Target - enabling of multi-user pilot jobs via glexec. This could conceivably be via another means than SCAS, but this would have to be decided asap.

* Glue2
Status - Glue2 is awaiting final validation at OGF, expected November.
Target - we should try to get the new schema deployed to the BDIIs so we can iron out initial deployment glitches, leaving us with a working but unpopulated Glue2 infosys in parallel to 1.3. Info providers could subsequently be upgraded gradually, as could clients.

* CE publishing
Status - A set of changes to rationalise publishing of heterogeneous computing resources is envisaged. A full roadmap will be published by Steve Traylen this week. The first phase

will be the deployment of the new tools, enabling simply the current situation. Subsequent phases then take advantage of the new tools.
Target - the first phase as described above.

* WMS
Status - Patched WMS (eg fixing LHCb's proxy mixup problem) expected within 1 week.
Target - This patch should be deployed. A fully functioning ICE component, to submit to CREAM, will not be necessary for certification, ICE will be handled in subsequent patches and its deployment would not be a specific target.

Other things we could consider;

* gridftp2 patches
These are being backported to VDT1.6 and could be deployed (good for dCache and FTS)

* CREAM
Unlikely to be deployable as an lcg-CE replacement on this timescale, but we can continue with rollout in parallel.

Oliver.

--
Oliver Keeble Information Technology Department
oliver.keeble@cern.ch CERN
+41 22 76 72360 CH-1211 Geneva 23