

Software Management Workshop



Software Management(WG5)

The aim of the working group is to look at deficiencies in deployed and upcoming software that make the operation of a stable production service challenging. Wednesday 13.30 - 18.00 Software Management 104-R-B0. Deployment and removal of VOs. Service discovery for VO members. Fault tolerance of system. What can break the grid, restart services remotely? Shutting down and upgrading running services Which services can't be shut down. Feeding back issues to developers. How to get things changed as a result of service challenge Thursday 9.10 - 12.30 Software Management 13-3-005 Level of intrusion of software on WNs. Can it be reduced, removed, sand boxed, what is reasonable Application Software Installation Spark and Tank - Is there someone tell us about - (Perhaps this belongs in the fabric area) Software deployment process. Goals of the pre production test. Improving Grid wide scheduling. (Perhaps in fabric section. Can the service challenges find what the problem is? Glue deficiencies, can /should we just extend Glue ourse



Those Present

Steve Traylen Chris Brew RAL Gonzalo Merino PIC Jeff Templon NIKHEF **Robin Midddleton RAL** Laurence Field CERN Torino Manchester - NGS Stephen Pickles Alex Romania Fabio Lyons Piere CC-IN2P3 GSI. Oxford Rhys Newman Mixture of site admins, end users and grid deployers.



Adding VOs at a Site

We decided that VO services was being discussed in other groups - concentrated on the site level. Review of what has to be done. Create group Create pool accounts Create /home directories Touch gridmapdir Adapt mkgridmap somehow. Create storage areas with correct per Software area. Queues for the VO. Configure the end points for default BD Modify access control lists on services. VO specific environment VO_ATLAS_ (Currently a pain when only one SE to define for every Atlas software manager VO is also needed. Maui confia



Could this be simplified?

Nothing much could be removed or simplified. Main difficulty was editing LCFG profiles which is manual and error prone. It was thought new modular install scripts would help by bunching actions for a VO together. Modularity addressed site differences, e.g. NIS vs. LDAP vs. /etc/passwd. Quattor schema was also designed with this in mind Using VOMS and LCMAPS might make life easier on CE. Only one set of pool accounts with secondary groups possible. But with no VOMS aware SE the problem is not reduced.



Removing a VO

Disabling a VO for a time was considered easy today. However destroying a VO and getting all of files shifted of site difficult. Comes down to providing methods for removing services. Summary for adding/removing VOs. Not a lot can be done at this time other than wrapping the process.



Service Discovery within a VO.

Current issue were mainly confined to the user interface. Sysadmin expected to provide default files for VO. Sysadmin does not know even what VOs their "local" users a The VO members can not find the services and new ones are added. We should request that the UI is able to look in the information system to locate RB and L&B service. Although this is would be the default the user can also speci a static configuration file. They or the site may trust or want to use a particular one themselves and so override selection. The sysadmin only has to provide an end point of the information - of course this led to multiple information systems



Multiple Information Views.

This was not being discussed elsewhere so was considered. General consensus was that it was undesirable. It was introduced to protect established sites from sites in testing. Improved tolerance in MW has made this less important It is now used by VOs to black list sites quickly. Using site tags was not quick enough and could be impossible to do (e.g. down GridFTP server on CE).



VO area of schema.

Could a there be a space in Glue for VOs to publish a sites status for their benefits. - This was considered a possible schema extension Having middleware respect it though is considerable work Maybe easier for the RB as the tags could be matched against. Data handling would be useful since running jobs would have their output directed elsewhere. Summary, We want to get rid of multiple information views but this solution may be too hard.



Shutting Down Services

Various Scenarios Planned e.g. Disabling a VO e.g. Kernel upgrade. ASAP Unplanned e.g. Pulling the cable out. Current status is published for services. - The exact times are not published, though recorded in the GOC Again adding this to schema is possible but the added intelligence in MW is serious work. We can't submit it as a bug, only a recommendation for future work



Feedback to Developers

Many sources of bugs and requests - C & T testbed. - Pre-Production Users/Admi Production Users/Admins Most of these will come via the user/operation support system - GGUS. A free for all direct to developers will drown them Members of operations helpdesk need to be the interface between users/admins and developers and to influence priorities of the developers.