

The discussion in the service configuration breakout session focused on three different areas: services which are not good candidates for configuration management; services which would be good in a framework and which have been incorporated within a framework; providing feedback to VDT about what should be consider in the new RPM distribution.

#### **Which services are not good candidates**

During the discussion, it became clear that software with its own custom configuration and/or change management solutions are not good candidates. For example, the Oracle DB has a setup similar to this making it a poor candidate for integration into a configuration management solution like cfengine or puppet. Similarly, something with complex installation and configuration procedure such as the current VDT pacman installs would not work well with configuration management systems. Another consideration is the existence of a working system. Change for it's own sake should not be a goal and can be very disruptive. If a resource is already using a ROCKS or other software for configuration, there should be no need for these resources to change their setup. Finally, any change to existing services should be possible on an incremental basis so that services can be gradually brought under a configuration management system.

#### **Which services work well in a framework**

Ideally, we'd like to have as much as possible to be incorporated into a configuration management framework. Looking at the tier 3 efforts and Doug Benjamin's goal of having a Tier 3 site be maintainable with 0.25 FTE, this is something would be a prerequisite for achieving Doug's goal. In the context of larger resources with more dedicated effort, reducing the maintenance required would be appreciated as well. This is achievable with a RPM based distribution of the OSG software since other services such as job managers (bps, condor, etc.), dns, ntpd, ssh, etc. services have already been incorporated into various configuration management systems at various sites.

Finally, a subversion repository or something similar similar should be made available for admins to put recipes or snippets that worked for them so that other admins can browse and copy something that they can use (possibly with their own modifications) in their configuration management systems.

#### **Feedback to VDT about RPM packages**

VDT's RPMs should have hooks that allow a configuration management system to more easily handle configuration and provisioning of OSG services. We had some discussions of callouts in rpm post-install scripts or having a command that the configuration management system can call after the rpm has been installed.

Sarah Williams brought up the need for the OSG configuration script to be able to reload or restart services as appropriate when it's been notified that the configuration file that it uses has changed. This would allow configuration management software to update the configuration file for OSG and then run this script to make the configuration change go into effect.

Finally, the ability to ignore configuration of OSG services would be nice to have so that site-specific configuration can be done by a configuration management service or admin outside of the OSG configuration process. The admin should have a way of indicating that these changes should not be overwritten or altered by the OSG configuration process.

#### **Next steps/recommendations**

- Provide a repository for admins to share snippets and modules for configurations (e.g. puppet modules, kickstart files, VM images, etc.)
- Contact and provide feedback to VDT about a wish list in regards to OSG RPM/configuration management integration
- Survey admins to see what configuration management systems sites are using