

GRIIF Site Report

Michel Jouvin

LAL/Orsay

jouvin@lal.in2p3.fr

Quattor Workshop, Madrid 2007



- 6 geographical sites with a unified SCDB
 - Each site machines grouped in cluster(s)
 - Current total = 310 machines, 25 "clusters"
 - SCDB sites provide a very flexible method of sharing configuration between clusters and/or sites
- Most of the systems are grid systems
 - Easy migration from gLite 3.0 to 3.1
 - Easy migration from SL3 to SL4
- Management of NFS servers for grid systems
- LAL internal systems
 - All servers are UI
 - Management of Linux desktops



- Using SCDB, HTTP repositories, AII, QWG templates
- 1 Quattor server per site
 - Currently used only for AII (DHCP+TFTP)
- 1 master Quattor server
 - All profiles deployed on and served from this server
 - All RPMS served from the central Quattor http server
- Reached the upper limit for deployment with a full recompile : 3mn20
 - Doesn't include time for compilation before deployment
 - In SCDB, required before deploying a new configuration
 - Ability to compile only one cluster during development phase
 - Currently a dedicated dual Opteron 2.2 Ghz machine
 - Divided by 2 on a 4-core Opteron/Woodcrest machine



- GRIF configuration
 - 50 machines added, compile time increased a little bit less than linear
 - Installation of SL4.5 64-bit WNs with gLite 3.1
- OS errata deployment (in progress)
 - Local RPM repositories rsync'ed with SL repositories by a cron job (every day)
 - rpmUpdates.pl script used to generate a template with pkg_only for the errata RPMs
 - Template included at the end of every configuration
 - List of errata customizable per node (or cluster, site..) through a PAN variable
 - Still an issue with kernel modules : RPM name includes kernel version the module applies to
 - rpmUpdates.pl ran manually
 - Ability to drain WNs without closing/draining CE is used to prepare for reboot



- Currently adding 250 new nodes : improvement needed in compilation time
 - Upgrade Quattor server HW : probably an 8-core machine
 - // compilation of clusters on different servers
 - Compile a cluster on the site Quattor server
- HTTPrep servers distributed on each site
 - Avoid SPOF, increase performances
 - Design : use a cache server on each site
 - 1 RPM content change involves a file name change



- All T2/T3s in France except one (7) using Quattor
 - CPPM (Marseille), GRIF, IPNL (Lyon), IReS (Strasbourg), LAPP (Annecy), LPSC (Grenoble), SUBATECH (Nantes)
 - Between 10 and 50 machines per site
- SCDB + QWG
 - 1 SCDB per site
 - Benefit from LAL expertise but several new “experts”
 - Some of them already contributing to QWG templates
 - No specific site or mailing list for French users
 - Encourage participation to “global” Quattor
 - Use LCGFR list as a space for “discussion in French” to help new users

