

GRIF Site Report

Michel Jouvin

LAL/Orsay

jouvin@lal.in2p3.fr

Quattor Workshop, Dublin 2007



- 5 geographical sites with a unified SCDB
 - Each site machines grouped in cluster(s)
 - Current total = 250 machines, 10 clusters
- Using SCDB, HTTP repositories, AII, QWG templates
 - GRIF structure with multiple sites (and different local requirements) helps to design flexible QWG templates
 - SCDB sites provide a very flexible method of sharing configuration between clusters and/or sites
- 1 Quattor server per site
 - Currently used only for AII (DHCP+TFTP)
 - All profiles deployed on and served from central Quattor server
 - All RPMS served from central Quattor http server
- LAL internal systems
 - All servers are UI
 - Management of Linux desktops

- # Changes since October 00
- New PAN compiler (v7) in production since mid-February
 - No major issue, except UTF-8 support by components
 - Huge improvement in compile time on Windows (2,5)
 - GRIF configuration
 - 50 machines added, compile time increased a little bit less than linear
 - Installation of SL4.4 64-bit WNs
 - All WNs at LAL, other sites migrating
 - Recipe developed now used for official support of MW 32-bit on SL4 (intermediate release before native support)
 - Management of VO boxes (Alice, CMS)



- Compiler speed : 3mn for a full recompile on dual Opteron 2,2 Ghz
 - With SCDB, deployment involves recompile on server
 - Really the maximum we can afford
 - Try to compile clusters in // on every site server
 - If necessary upgrade Quattor server HW as the new compiler scales well with the number of cores
- Installation of OS errata
 - Currently almost no deployment
 - Unattended download of RPM errata seems to work with `utils/misc/rpmUpdates`
 - Includes the ability to produce the associated template with last RPMs, based on RPM name but not on dependency information
 - What about installing errata on live systems
 - Need for planning a downtime or drain WN ?

- 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
 - Most of them are new sites
 - CPPM migrated from CDB to SCDB
 - LAPP migrated from pure virtual machines to Quattor
 - Several sites considering Quattor for non grid machines
- 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