

QWG Templates Update

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- No tagged releases... but a lot of work!
 - Mainly in gLite 3.1: many new features not back ported
 - gLite 3.0.2-14 tagged yesterday: the last planned release 3.0
 - Mainly components common with gLite 3.1
 - Unable to find the time to tag a new 'no-grid' release
- All v2: a generic template to define file system and partitions
 - Also templates to configure a Quattor/All server
- Improvements and cleanups in Xen templates
- Monitoring: addition of Nagios templates by Luis
 - F. Schaer (IRFU) may commit another different set, merge in the future ?
 - Several updated to LEMON templates (C. Leroy, S. Child)
- gLite 3.1 updates and new machine types

- All the machine types can be installed on a 64-bit OS
 - OS support still mainly SL, interested by contribution (+maintenance!) for CentOS, FC or SLC
 - VOMS, CREAM-CE, AMGA, WN64/UI64 not yet available
- No more use of ncm-glite
 - No other option as XML config file and associated Python scripts are unmaintained
 - Replace by a few service-specific components, e.g. wmslb, **mysql**
- Variable-based Torque/MAUI configuration
- Increased flexibility in NFS configuration
 - Per file system export definitions
 - Reduce no_root_squash to /home by default
- VO configuration based on CIC Portal
- Lots of internal cleanups before glite 3.2

- Several contributors to templates
 - Mainly Stephen and me...
 - But mine often hides contributions from others at GRIF
 - <http://grid.ie/svnstats/QWG>
- Need to encourage more contributions
 - Not necessarily for “big things”: HW template, miscellaneous changes, fixes...
 - Support for new machine types with support from more “experimented people”
 - Integration with monitoring tools
 - Ask for a SVN account: philippo@lal.in2p3.fr and jouvin@lal.in2p3.fr
 - May look (again) at using certificated in the future: also depends on move to SourceForge



- Releases are useful only if reasonably up-to-date
 - Require at least 1 every 2 or 3 months for gLite
 - Doing a release is a significant amount of work: documentation, change log... (~2 hours)
- May be not so useful in real life but important for visibility
 - Move to several release managers ? Volunteers ?

- A critical component for usability and confidence
- A few new contributors: Stephen, Luis... More needed
 - It's important to fix mistakes you find
 - If you are unsure of your contribution, ask somebody to review it
 - There is a page history: this is easy to revert a change in case of mistake...
- Review of existing/missing part required
 - Producing and reviewing must be done by different people
 - Lack of quick-start pages
- Need to improve documentation on basic layout of the wiki
 - Navigation menu
 - But moving a page is easy...



- Cleanup for performance
 - Suppress unnecessary return()
 - Remove unnecessary copy of objects
 - Assign directly to SELF when this is a list or nlist (e.g. pkg_repl())
 - Profiling for better identification of problematic areas
- VM support : generic template for HW + variable (nlist) to define MAC address, disk size...
- VO configuration (Cédric)
 - update.vo.config: preserve old cert when updating to avoid disruptive updates
 - VOMS client: support for certificate-less configuration for services that support it
 - Only gLite 3.1
 - A well know exception is WMS

- Rewrite SPMA functions with auto-escaping (panc v8)
 - Removal of the main loop to find the package in pkg_XXX
 - Should lead to a significant perf improvement as called O(1000) by node
- Finalize support for errata
 - SPMA: ignore previously installed versions of some packages even though they are no longer part of configuration
 - Will help for Java too: only one version part of the configuration but other ones installed will be kept
- Move xxx_CONFIG_SITE to be executed first
 - Allow to define variables before their actual use
 - In gLite 3.2: may require some local changes



- LCG CE
 - Support for VOViews
 - Support for new cluster/subcluster description
- SGE support: 1 site interested in South Africa
- Pool accounts for VOMS group/roles
- Pre-compile some parts of the config, eg. VO config
- Xen future ? Other VM types ?
- No-grid
- Improved upgrade procedure
 - Who is using directory-sync ?
 - Upgrade script working on non-Unix ?
 - SVN externals ? Too much dependency of an off-site SVN server ?



- Improve coordination with YAIM maintainer(s)
 - Quattor recognized as one of the major configuration framework for gLite
 - EGEE SA3 has no expertise and no manpower to support/contribute Quattor framework but interested by sharing ideas and a better coordination
 - Private discussions with O. Keeble 6 months ago...
- Eugridpma now provides the CA template at the same time as the RPMs
 - Done for the first time in CA 1.25
 - Plan to setup an External/ distribution point for easier upgrade independently of other gLite templates

