

SCDB Status

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- SCDB Components
- Ant Tools
- Deployment script
- Utilities
- Future plans
- HTTPrep
- Documentation

- Ant tools : implement SCDB-specific Ant targets
 - compile, deploy...
 - **New : update.vo.config** to generate grid VO configurations
 - See QWG status presentation
- Deployment script : deploy a tagged template release on Quattor server and notify clients
- Utilities (scripts) : set of “companion” scripts, to ease every day tasks
 - Generation of update templates, check of profile changes
- HTTPrep : alternative to SWrep using a plain http server
 - Management tool integrated into Ant tools
 - Optional part of SCDB
- All packages together as SCDB

- SCDB Ant targets defined in quattor.build.xml
 - Public targets : compile, deploy, update.rep.templates, update.vo.config
- Ant tools written in pure Java
 - No shell command forked
 - Rely on external (pure Java) tools : Ant API, SVNKit, p...
- SCDB structure implemented into quattor.build.xml
 - Ant tools are structure-agnostic
 - SCDB structure mapped into PAN include path
 - cluster.build.properties is the "glue" on a per-cluster basis
- Default structure can be redefined easily
 - Including naming convention for "top-level" directories
 - QWG templates don't care about the exact structure
 - All references are relative to "top-level" directories
- Changes since Madrid (2.1.5) : mostly fixes
 - nanc 7 2 9

Deployment Script

- Made of 2 parts :
 - SVN hook script : post-commit in SVN repository
 - Check tag validity and launch build-tag.pl
 - Build-tag.pl : where the real work is done
 - Run on Quattor server
 - Launch through ssh by hook script
 - Require ssh keys from SVN server to Quattor server
 - Configuration file for both scripts
- Changes since Madrid (2.1.5) : mostly fixes
 - Detect already running build-tag to prevent SVN corru
 - Improved retry logic in build-tag

- Located into src/Utils : rename into utils ?
 - profiles/compare_xml : compare 2 versions of XML profiles in working area (build/ and build.saved)
 - misc/* : mainly template generation
 - buildOSTemplates : build RPM templates from distribution group using distribution comps.xml (wrapper to other scripts)
 - createPackagesTemplate : build a RPM template from directory contents or from an external list (RPM names or URLs)
 - rpmUpdates.pl : build a RPM update RPM from directory content with ability to synchronize directory with an external source (wg)
- Changes since Madrid (2.1.5)
 - Add support for non-SL distribution (RHEL, CentOS) and for SL5/RHEL5 (new distribution layout)
 - Improve support for kernel variants (largesmp, XenU) and versions
 - Kernel version referenced through a variable in kernel and modules
 - Support for RPM-less components
 - But bug in ncm-cdispd preventing their use...

• Deployment scripts

- Parallel compilation of clusters on several servers
 - List of servers defined in post-commit configuration file
 - A cluster property defines compilation server
 - Clients get profiles from the server where compilation occurred
 - Main difficulty is error reporting to users
- Use of CGI rather than ssh to launch build-tag.pl
 - Or sudo when SVN and Quattor servers on the same machine

• SCDB structure

- 'clusters' directory organized by site

• Ant tools

- Ant target for tag cleanup
- External tools : panc v8

• Utilities

- Merge of createPackagesTemplate and rpmUpdates.pl
- OS independent compare xml (Ant target ?)

- Optional part of SCDB to replace SWrep
 - Management tool integrated with SCDB management tool
 - `ant update.rep.templates`
- Design : match RPM repositories to document directories on the Web server
 - Updating RPMs require remote access to the file system where are the repositories
 - Filesystem ACLs can be used to control access
 - Update of RPM repository templates doesn't require access to the file system (done through http)
- 1 template associated with each repository
 - Special comment at head of the template associating it with the Web server directory
- No specific code to maintain, apart ant task
 - Probably the simplest SCDB ant task...

- No change since Madrid
- Planned new features and changes (no date)
 - Use of squid to provide RPM repository caches
 - For increased perfs and load distribution in distributed sites
 - Initial loading of repositories and synchronization ?
 - Add to standard templates a well known source
 - Add a task to do the "rsync"
 - RPM dependencies management : probably require some kind of metadata. Not clear if this is reasonable.



- Documentation and how to get it :
 - <http://trac.lal.in2p3.fr/LCGQWG>
 - Self-sufficient : no reference to Quattor Installation guide
 - Quattor Installation guide MUST be ignored when installing SCDB
 - Include a script to download a complete vanilla SCDB with OS, MW and other standard templates
 - Includes working examples that can be compiled with ant
- SCDB release notes : describe main changes for each release
- No documentation on client installation... because there is nothing to install !!!
 - All the SCDB specific components are inside SCDB itse
 - Including a (pure Java) SVN client (jsvn)
 - Installing a native SVN client is recommended and required for the first checkout
 - Eclipse (optional) requires installation of a few plug-ins
 - Documented on the wiki in SCDB documentation