



Quattor @ CERN quick status update

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- Quattor instances in production at CERN-CC
 - + “Main instance”: ~6100 nodes (non-desktop) over 91 clusters (+1K nodes, + 2 clusters w.r.t. 03/07)
 - Still using `panc-6`: no time for testing extensively the latest compilers :-(), but first tests **not** satisfactory, indeed
 - We have 6100 profiles, ~0.5 MB/profile
 - currently compiled in 20': ~5.1 profiles/s on a 2 x dual-core with 16GB of RAM
 - `panc-7` performed **slower** than that: to be ascertained
 - Thanks to Cedric for ongoing tests
 - + *Linux for Controls* and other instances: ask Matthias for an updates

□ Main instance setup:

+ CDB

- Custom template set still based on pseudo namespaces
- YAIM for LCG
- Multi-core CPU support (soon distributed parallel compilation)
- Replicated server for high availability under load

Slowly moving towards "stages"

Active development!

done

pending

+ SPMA + SWRep-SOAP

- Extended authentication capabilities (SAML, X.509 and KRB5)

Many bugfixes, improved backward compatibility

+ CDB2SQL

No progress

+ CCM

- SSL-based secure transfer of profiles ready

In production thanks to new HW

- + Client installation through `PrepareInstall`, **not** `All`
 - writes KS files by filling out an OS-specific template
 - gets info from CDB (via `NCM::HLConfig` module) and `CDBSQL`:
 - OS, filesystem, network parameters, RPMs to bootstrap SPMA and NCM, etc.
 - interacts with CERN-specific components:
 - consistency checks against LAN database
 - prepare download of sensitive information from SINDES (host certificates, password files, etc.)
 - upload KS files to AIMS installation server
 - Strongest point: successfully glues lots of stuff together
 - hides limitations of Anaconda, Quattor, AIMS, OS, hardware, ...
 - easy to use for SysAdmins, Service managers (single tool)
 - Weakest point: a bit “hackish”
 - not very clean script, with many, many “if” statements

□ Release management

- + 99%-automated process :-)
- + *ETICS* integration to com **On hold**
- + *Savannah* bug tracker management com **Pending** migrated

□ Default templates set

- + Ready for namespace **First stage in production**
 - Automatic conversion of NCM components' templates available
 - Conversion of CERN-CC templates **"Staged" namespaces under testing** not done yet

□ Core modules developed

- + CCM, CDB, CDB2SQL, NCM framework, SPMA, SWRep, wassh

□ Template “de-optimization”

- + Got rid of most `value(//ext_object/...)` references
- + Necessary for introduction of “stages”
- + Runs ~2 times slower :-), but takes ~20' to recompile everything on a 2 x dual-core with 16GB of RAM.

□ Xen-based virtualization

In production

- + Quattor integration via `ncm-xen` + `ncm-filesystem`
 - See this [presentation](#).

□ Miscellanea

- + integration of Quattor services with `SLS` (Service Level Status) to come soon

In production

 **quattor**

<http://quattor.org/>