

Quattor Status Report

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Quattor Workshop, CERN

Outline

- Usage
- Survey highlights (reminder)
- Activities and difficulties
- Conclusions

Usage

- No survey before this workshop
 - › Decided for 1 every year
- No notification of major changes
 - › 1 new site in France
 - › Quattor abandoned in Senegal (and Israel?)
- ~30 « teams » working with Quattor to manage their installation
 - › Central management of several grid sites (eg. Ireland)
 - › Some large teams/installations : CERN, MS, GRIF, RAL
- Quattor managing 40K to 50K machines

Survey Highlights...

- See previous workshop for details
 - <http://indico.cern.ch/getFile.py/access?contribId=3&sessionId=2&resId=0&materialId=slides&confId=105169>
- Quattor used in 10 countries to manage sites from 50 to 25K machines
 - 2/3 sites with less than 5 sysadmins involved with Quattor
 - Not always a Quattor expert on-site
- Most sites rely on SCDB + QWG templates
 - Not necessarily for managing gLite services
 - A couple of sites considering Aquilon for the future

... Survey Highlights

- Some interest for a wider use of some QWG subsets
 - › OS templates: no major issue
 - › Monitoring: lacking a generic set of templates to configure Nagios servers and clients efficiently
- Interest in using Quattor for managing virtual machines (in some way)
- Documentation reasonable but improvements needed, in particular for helping new users

Increased Activity

- Scrum idea with a weekly meeting was pretty successful
 - Good attendance in average (6-8, not always the same)
 - A large number of actions completed
 - Create the sense of a community
- Main area of improvements: QWG templates, configuration modules, documentation
- Probably need to rediscuss usefulness of monthly meeting

Some Metrics

- Commits into SF SVN (Quattor core) since last workshop
 - › ~450 commits by 16 people
 - › 2 big committers (only): Cal and Luis
- Commits into QWG SVN (QWG templates + SCDB) since last workshop
 - › ~170 commits by 11 people
 - › 1 big committer (Michel), hiding several contributors from GRIF
- QWG wiki updated at least once every week
<https://trac.lal.in2p3.fr/Quattor/timeline?from=03%2F15%2F11&daysback=99&authors=&wiki=on&update=Mise+%C3%A0+jour>

New Toolkit Components

- QuattorFS added to SF SVN
- Aquilon on SF (Git)
- SINDES (almost) integrated into SF SVN as the main distribution channel
 - Remains possible to use SINDES outside Quattor
 - Better integration of SINDES configuration into Quattor (in particular All) still in progress
- New MAVEN-based Quattor build tools

Main Difficulties

- Progress on configuration databases (SCDB, Aquilon)
- New generation of build tools
- Monitoring templates: still not having an agreed reference set to build upon
- StratusLab contribution integration
- Progress on documentation contents
- CERN (and CNAF?) having difficulties to benefit from/contribute to the community

Conclusions

- Quattor community stable but more active
 - › Good participation to the scrum weekly standup
 - › Different profiles of sites involved in the development
 - › Progress on many actions
- Enlarging the community remains the principal challenge to ensure Quattor's future
 - › Will require some dedicated actions to make progress
- Good to be at CERN where Quattor was born
 - › Disappointing that CERN is not benefiting more from the community, hope the workshop will help