

10th Quattor Workshop

Monday, October 11, 2010 - Wednesday, October 13, 2010

Rutherford Appleton Laboratory

Book of Abstracts

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Site Experiences / 0**BEgrid Quattor installation current state and help required from community**

Authors: David Durvaux¹; Shkelzen Rugovac²

¹ BELNET

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Corresponding Author: david.durvaux@belnet.be

BEgrid (Belgian GRID) is using Quattor in a non standard way. A central server handle configurations for all the sites. Each site is running a “Quattor client” retrieving and compiling the configurations. There is no push to site. The central machine is becoming old and the hardware start failing. A fresh installation is required and it’s the opportunity to refresh everything a use Quattor in the standard way. The task is not so easy and we have a lack of experience (at least at BELNET). So, we would like to present the situation and where we want to go. We expect inputs from the Quattor community to help us having a clean situation.

Site Experiences / 1**QWG templates Status**

Author: Michel Jouvin¹

¹ LAL / IN2P3

Corresponding Author: jouvin@lal.in2p3.fr

Usual status report about QWG templates

Tool Update Report / 2**SCDB update**

Author: Michel Jouvin¹

¹ LAL / IN2P3

Corresponding Author: jouvin@lal.in2p3.fr

Usual status report about last SCDB developments and plans

Tool Update Report / 3**Quattor Usage Report**

Author: Michel Jouvin¹

¹ LAL / IN2P3

Corresponding Author: jouvin@lal.in2p3.fr

Report on the current Quattor usage, based on the survey done in September.

Tool Update Report / 4

Pan Compiler Status

Author: Cal Loomis¹

¹ *CNRS/LAL*

The presentation provides the current status of the pan language compiler and a roadmap for upcoming features.

Development Tools / 5

Quattor Software Process

Author: Cal Loomis¹

¹ *CNRS/LAL*

Building the components of the Quattor toolkit, packaging those components, and testing them are all essential for maintaining Quattor as a high-quality fabric management system. The current tools and processes are not effective. This presentation provides the plan for moving to a new set of build tools and services to better support the Quattor software development and release process.

Virtualization Support and Experiences / 6

Quattor and Virtualization

Author: Cal Loomis¹

¹ *CNRS/LAL*

Quattor will play an important part in the StratusLab project—demonstrating compatibility with fabric management tools and acting itself as a tool for controlled building of machine images. The presentation provides an overview of the current state of virtualization support with Quattor and the StratusLab plans for Quattor integration/interaction.

Site Experiences / 7

Migration to QWG templates

Author: Ronald Starink¹

¹ *Nikhef*

Corresponding Author: ronalds@nikhef.nl

A discussion of effort needed to migrate (part of) Nikhef's template hierarchy to QWG-based templates.

Nagios Configuration in QWG / 8

Future changes in QWG Nagios templates

Author: Ronald Starink¹

¹ *Nikhef*

Corresponding Author: ronalds@nikhef.nl

Nikhef's templates for configuring Nagios contain some enhancements compared to the standard QWG templates. During this presentation the differences will be discussed. Based on that, the future development of the Nagios templates can be discussed.

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Using Git with Quattor SCDB

Author: David William O'Callaghan¹

¹ *Unknown*

Corresponding Author: david.o'callaghan@cern.ch

This talk will discuss experiences with using Git in place of Subversion with Quattor SCDB.

Miscellaneous / 10

Building awareness and knowledge of Quattor

Author: David William O'Callaghan¹

¹ *Unknown*

Corresponding Author: david.o'callaghan@cern.ch

In this session participants will be invited to discuss ways to spread the word about Quattor. This will include Quattor's web presence and other "dissemination" activities.

Site Experiences / 11

Deploying SINDES at RAL Tier 1

Author: James ADAMS¹

¹ *STFC RAL Tier 1*

RAL Tier1 is on the point of deploying SINDES in production on all Quattor managed system. This talk will present some of the issues, challenges and expected benefits.

Tool Update Report / 12

Proposed changes to ncm-fileystems (and a future ncm-stab)

Author: Luke Fernando Muñoz Mejías¹

¹ *CERN*

A few months ago, Ian requested some things that make perfect sense about ncm-fileystems. I more or less have the time to implement it now, so here it goes:

- 1) “preserve” and “format” don’t make sense anymore. They do for the installer, but not on a live system. So, the component should just ignore them. It should remove a FS if it disappears from the profile, and create it if it appears. Great care should be taken so that nothing gets removed by mistake, so check your “protected_mounts” field!!!
- 2) Sometimes all users need is to modify the fstab for some devices that aren’t handled by this component. Say, tmpfs, SMB mounts... according to Ian’s proposal, fstab manipulation should be MOVED to a different component, namely ncm-fstab.
- 3) As a consequence, ncm-fileystems will depend on ncm-fstab.
- 4) There will be NO modifications to the current schemas for block devices and filesystems. Maybe some relaxation of the checks, to cover more FSs and pseudos. In any case, it will all be backwards-compatible.

Security Management with Quattor / 13

Cruft Removal

Author: James ADAMS¹

¹ *STFC RAL Tier1*

A brief summary of our experience trying to reducing the payload size of QWG templated machines and proposals for enhancements and changes to template layout in order to improve package control.

Security Management with Quattor / 14

Security by default: The importance of lean systems

Author: Mingchao Ma¹

¹ STFC

There are a few very well-known security principles in information security such as security by default, security in depth. However, in reality we have seen that people very often overlook some simple but important details, which might eventually lead to a system being compromised. This presentation will give a few examples and observations that we have seen in our day to day operation and try to explore the ways of how Quattor can help improve or enhance security.

Introduction & Welcome / 15

Welcome & Comments on Quattor & Tier1

Author: Andrew Sansum¹

¹ STFC

Introduction & Welcome / 16

Introduction & Practical information

Author: Ian Collier^{None}

Security Management with Quattor / 17

QWG Errata Framework

Author: Ian Collier^{None}

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Discussion

Security Management with Quattor / 19

GRIF Approach to Errata Deployment

Author: Guillaume Philippon¹

¹ LAL / IN2P3

Current experience at GRIF with errata deployment and future plans.

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QWG Discussion

Nagios Configuration in QWG / 21

Discussion

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Aquilon Status

Corresponding Author: nick.williams@morganstanley.com

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