

# **11th Quattor Workshop**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## SINDES development

*Thursday, March 17, 2011 11:00 AM (1 hour)*

SINDES, Secure INformation DELivery System, is a tool that can be used together with Quattor to ensure enough level of privacy in storing and delivering confidential files. Written in 2005, SINDES is now being reviewed in view of enhancing and/or rewriting it.

We propose to describe short-term enhancements to the current system (access control, improved logging, clearing old certificates, publishing the CRL) with some functional details and explanation about how it changes the application. Apart from that, the requirements collected from the CERN users of SINDES will be presented (file modifications, history, machine upload, unattended installations, support for different OS) . Each request for enhancement will be followed by a possible list of solutions and will be discussed whether it is possible to implement in current SINDES.

At the end, the proposal of the architecture of the new SINDES will be shown. Moreover, some implementation details will be proposed and prototype system will be presented. The presentation will be followed by a discussion/brainstorming session with the whole Quattor Community.

### Summary

Current development on SINDES will be presented. The proposal of the architecture of the new SINDES and summary of CERN user's requests for enhancement will be also shown. The discussion foreseen at the end.

**Author:** DUDZIEC, Jan (CERN)

**Presenter:** DUDZIEC, Jan (CERN)

**Session Classification:** Security Management

**Track Classification:** Security Management

Contribution ID: 1

Type: **not specified**

## Pan Compiler Status

*Thursday, March 17, 2011 10:00 AM (30 minutes)*

Status and roadmap for the pan compiler.

**Author:** LOOMIS, Cal (CNRS/LAL)

**Presenter:** LOOMIS, Cal (CNRS/LAL)

**Session Classification:** Core Tools

Contribution ID: 2

Type: **not specified**

## Maven-based build tools

*Thursday, March 17, 2011 2:00 PM (30 minutes)*

Current status of the maven-based build tools for Quattor.

**Author:** LOOMIS, Cal (CNRS/LAL)

**Presenter:** LOOMIS, Cal (CNRS/LAL)

**Session Classification:** Development Tools and Process

**Track Classification:** Development Process and Build Tools

Contribution ID: 3

Type: **not specified**

## StratusLab Cloud Tutorial

*Friday, March 18, 2011 9:00 AM (1 hour)*

Tutorial showing the StratusLab cloud developments as well as interactions with the Quattor toolkit.

**Author:** LOOMIS, Cal (CNRS/LAL)

**Presenter:** LOOMIS, Cal (CNRS/LAL)

**Session Classification:** Tutorials and Hands-on

**Track Classification:** Tutorial

Contribution ID: 4

Type: **not specified**

## Quattor and CERN security

*Thursday, March 17, 2011 12:00 PM (30 minutes)*

In this talk, we'll provide a small overview of how CERN deals and prevents with security vulnerabilities, and how Quattor is used in plenty of them.

**Author:** Mr MUNOZ MEJIAS, Luis Fernando (CERN)

**Presenter:** Mr MUNOZ MEJIAS, Luis Fernando (CERN)

**Session Classification:** Security Management

**Track Classification:** Security Management

Contribution ID: 5

Type: **not specified**

## Lemon - The LHC Era Monitoring system at CERN

*Wednesday, March 16, 2011 2:35 PM (55 minutes)*

The LHC Era Monitoring (Lemon) system is addressing requirements for large scale infrastructure monitoring and is used in the CERN Computing Centre. Although Lemon is not directly integrated into Quattor, it is nonetheless a part of the Extremely Large Fabric management system (ELFms) tool suite and used by several Quattor community members.

We would like to share our experience, present on-going development activities as well as options open for future CERN CC monitoring. Depending on the time available we may address questions from Lemon users in the Quattor community.

**Author:** FEDORKO, Ivan (Conseil Europeen Recherche Nucl. (CERN))

**Presenter:** FEDORKO, Ivan (Conseil Europeen Recherche Nucl. (CERN))

**Session Classification:** QWG Templates and monitoring

**Track Classification:** Monitoring

Contribution ID: 6

Type: **not specified**

## Tutorial: PAN language

*Friday, March 18, 2011 11:15 AM (1 hour)*

I think that a tutorial on the PAN language would be useful (we could record it for later usage for new comers). With main features and best practices and how to improve compilation performance.

Could Cal provide it ?

**Author:** LOOMIS, Cal (CNRS/LAL)

**Presenter:** LOOMIS, Cal (CNRS/LAL)

**Session Classification:** Tutorials and Hands-on



Contribution ID: 7

Type: **not specified**

## **tutorial: NCM-components**

*Friday, March 18, 2011 2:00 PM (45 minutes)*

I would propose to have another tutorial that presents all existing CORE components, what they do and examples of how to use them.

Also some guide lines about how to write new components ?

**Author:** MUNOZ MEJIAS, Luis Fernando (Facultad de Ciencias - Universidad Autonoma de Madrid)

**Presenters:** MUNOZ MEJIAS, Luis Fernando (Facultad de Ciencias - Universidad Autonoma de Madrid); JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Tutorials and Hands-on

**Track Classification:** Tutorial

Contribution ID: 8

Type: **not specified**

## **example of quattor settings such that the authorized\_keys for root/users account stay and don't get removed (nor changed) after re-configuring ncm component**

*Friday, March 18, 2011 2:45 PM (30 minutes)*

example of quattor settings such that the authorized\_keys for root/users account stay and don't get removed (nor changed) after re-configuring ncm component.

**Author:** MUNOZ MEJIAS, Luis Fernando (Facultad de Ciencias - Universidad Autonoma de Madrid)

**Presenter:** MUNOZ MEJIAS, Luis Fernando (Facultad de Ciencias - Universidad Autonoma de Madrid)

**Session Classification:** Tutorials and Hands-on

**Track Classification:** Tutorial

Contribution ID: **10**

Type: **not specified**

## Welcome

*Wednesday, March 16, 2011 9:30 AM (20 minutes)*

**Author:** LEFEBURE, Veronique (CERN)

**Presenter:** LEFEBURE, Veronique (CERN)

**Session Classification:** Introduction

**Track Classification:** Miscellaneous

Contribution ID: **11**

Type: **not specified**

## **QWG Update**

*Wednesday, March 16, 2011 2:00 PM (20 minutes)*

Changes in QWG templates since last workshop and planned new features

**Author:** JOUVIN, Michel (LAL / IN2P3)

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** QWG Templates and monitoring

Contribution ID: 12

Type: **not specified**

## **example of quattor settings for RAID disk configurations (e.g. RAID 1, 6,10, 6E...)**

*Friday, March 18, 2011 3:15 PM (45 minutes)*

example of quattor settings for RAID disk configurations (e.g. RAID 1, 6,10,6E...)

**Author:** JOUVIN, Michel (LAL / IN2P3)

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Tutorials and Hands-on

**Track Classification:** Tutorial

Contribution ID: 13

Type: **not specified**

## Preparing glite updates in QWG

*Friday, March 18, 2011 10:00 AM (45 minutes)*

Discussion/Tutorial on what is required to prepare templates for new gLite updates in QWG to allow more sites to contribute to teh effort.

**Author:** JOUVIN, Michel (LAL / IN2P3)

**Co-author:** Mr COLLIER, ian (STFC/RAL)

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Tutorials and Hands-on

**Track Classification:** Tutorial

Contribution ID: 14

Type: **not specified**

## Status of Quattor Configuration Modules

*Wednesday, March 16, 2011 11:00 AM (1 hour)*

This presentation will give a report on components available (number, main purposes..), identify the critical ones and those that urgently need some refactoring/rewriting or maintenance.

**Session Classification:** Core Tools

Contribution ID: 16

Type: **not specified**

## Quattor Update

*Wednesday, March 16, 2011 9:50 AM (25 minutes)*

Main actions and facts since the last workshop. Evolution of the community.

**Author:** JOUVIN, Michel (LAL / IN2P3)

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Introduction



Contribution ID: 17

Type: **not specified**

## Discussion

*Wednesday, March 16, 2011 10:15 AM (15 minutes)*

**Session Classification:** Introduction

Contribution ID: **18**

Type: **not specified**

## **Aquilon + QRD Status ?**

*Wednesday, March 16, 2011 12:00 PM (30 minutes)*

**Presenter:** WILLIAMS, Nick (Morgan Stanley)

**Session Classification:** Core Tools

Contribution ID: **19**

Type: **not specified**

## **End of current sprint**

*Thursday, March 17, 2011 9:00 AM (1 hour)*

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Development Tools and Process

Contribution ID: 20

Type: **not specified**

## Status of monitoring templates

*Wednesday, March 16, 2011 2:20 PM (15 minutes)*

**Author:** STARINK, Ronald (Unknown)

**Presenter:** STARINK, Ronald (Unknown)

**Session Classification:** QWG Templates and monitoring

Contribution ID: 21

Type: **not specified**

## Discussion on development process

*Thursday, March 17, 2011 2:30 PM (1 hour)*

Discussion on community organization (eg. monthly meeting) and scrum development process started after last workshop (sprint interval, standup interval)...

**Author:** JOUVIN, Michel (LAL / IN2P3)

**Presenter:** JOUVIN, Michel (LAL / IN2P3)

**Session Classification:** Development Tools and Process

Contribution ID: 22

Type: **not specified**

## **CERN experience and problems with RHEL6**

*Thursday, March 17, 2011 4:00 PM (15 minutes)*

**Session Classification:** RHEL6 Discussion

Contribution ID: 23

Type: **not specified**

## **AUTH experience and success with FC 14**

*Thursday, March 17, 2011 4:15 PM (15 minutes)*

**Session Classification:** RHEL6 Discussion

Contribution ID: 24

Type: **not specified**

## Discussion

*Thursday, March 17, 2011 4:30 PM (1 hour)*

Major issues, workplan, specific needs for RHEL6, impact on component development

**Session Classification:** RHEL6 Discussion



Contribution ID: 25

Type: **not specified**

## Discussion on Pan annotations

*Wednesday, March 16, 2011 3:30 PM (30 minutes)*

Goal : agreement on how to use Pan annotations, which tags to use, which tools to compile and present them.

**Session Classification:** QWG Templates and monitoring

Contribution ID: 26

Type: **not specified**

## Quattor in CMS (a CMS for CMS).

*Wednesday, March 16, 2011 4:30 PM (30 minutes)*

The CMS online cluster consists of more than 2500 computers, mostly under Scientific Linux CERN, running the 10000 applications instances responsible for the data acquisition and experiment control on a 24/7 basis.

The evolving nature of the acquisition applications requires an easy management and configuration infrastructure suitable for large scale installation and fast configuration turnaround. Quattor was chosen as the Configuration Management System for CMS.

Online computers, under Quattor, can be fully reinstalled and configured from scratch in 6 to 25 minutes. Full reconfiguration of the cluster takes smaller times. More than 1000 computers can be reinstalled concurrently in less than 60 minutes and the infrastructure is easily scalable to reduce the installation time and accommodate for more computers at the same time.

Several tools have been created to leverage the knowledge of Quattor for daily tasks and to allow it to be used by for non privileged users.

In this presentation we will revise the details of the CMS Quattor infrastructure, its performance and the tools created to ease administration and overcome the shortcomings of Quattor.

**Author:** Dr COARASA PEREZ, Jose Antonio (CERN)

**Presenter:** Dr COARASA PEREZ, Jose Antonio (CERN)

**Session Classification:** Site Experiences

Contribution ID: 27

Type: **not specified**

## Continuous integration server

*Friday, March 18, 2011 4:00 PM (30 minutes)*

Demo + discussion

**Session Classification:** Development Tools and Process

Contribution ID: 28

Type: **not specified**

## **Pan annotation**

*Friday, March 18, 2011 4:30 PM (30 minutes)*

Follow-up of Thursday morning discussion (<https://trac.lal.in2p3.fr/Quattor/ticket/238>)

**Session Classification:** Development Tools and Process