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Quattor in CMS (a CMS for CMS).

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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.

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