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Upgrade and integration of the configuration and monitoring tools for the ATLAS Online farm

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The ATLAS Online farm is a non-homogeneous cluster of more than 3000 PCs which run the data acquisition, trigger and control of the ATLAS detector. The systems are configured and monitored by a combination of open-source tools, such as Quattor and Nagios, and tools developed in-house, such as ConfDB.

We report on the ongoing introduction of new provisioning and configuration tools, Puppet and ConfDB v2 which are more flexible and allow automation for previously uncovered needs, and on the upgrade and integration of the monitoring and alerting tools, including the interfacing of these with the TDAQ Shifter Assistant software and their integration with configuration tools.

We discuss the selection of the tools and the assessment of their functionality and performance, and how they enabled the introduction of virtualization for selected services.

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