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The evolution of monitoring system: the INFN-CNAF case study

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Over the past two years, the operations at CNAF, the ICT center of the Italian Institute for Nuclear Physics, have undergone significant changes. The adoption of configuration management tools, such as Puppet, and the constant increase of dynamic and cloud infrastructures have led us to investigate a new monitoring approach. The present work deals with the centralization of the monitoring service at CNAF through a scalable and highly configurable monitoring infrastructure.

The selection of tools has been made taking into account the following requirements given by users: (I) adaptability to dynamic infrastructures, (II) ease of configuration and maintenance, capability to provide more flexibility, (III) compatibility with existing monitoring system, (IV) re-usability and ease of access to information and data. In the paper, the CNAF monitoring infrastructure and its related components are hereafter described: Sensu as monitoring router, InfluxDB as time series database to store data gathered from sensors, Uchiwa as monitoring dashboard and Grafana as a tool to create dashboards and to visualize time series metrics.

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20

Scheduling constraints / preferences

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