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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 INFN-CNAF 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.
Our aim is 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 our users: adaptability to dynamic infrastructures, ease of configuration and maintenance, capability to provide more flexibility, compatibility with existing monitoring system, re-usability and ease of access to information and data.

We are going to describe our monitoring infrastructure composed of the following components: Sensu as monitoring router, InfluxDB as time series database to store data gathered from sensors and Grafana as a tool to create dashboards and to visualize time series metrics.

Primary Keyword (Mandatory)

Monitoring

Secondary Keyword (Optional)

Cloud technologies

Tertiary Keyword (Optional)

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