

Automating cloud deployment infrastructures with Kolla

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As the complexity of cloud infrastructures increases, better mechanisms for easy maintenance and deployment are needed. Containers offer great potential in this area, promising to simplify deployment and maintenance tasks. Considering the OpenStack ecosystem, which is the most widely used cloud solution in EGI/fedcloud, there are several projects focused in a modular deployment of OpenStack services based on containers. One of the most promising is kolla, which uses ansible and docker containers to address the OpenStack services management and deployment. In this work, the deployment of OpenStack using kolla at CESGA is presented. Integration in the EGI/fedcloud infrastructure is examined and technical challenges and the proposed solutions are shown.

The end result is an Infrastructure as a Service (IaaS) integrated in EGI/fedcloud easy to operate and maintain

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