

Deploying FTS with Docker Swarm and Openstack Magnum

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The deployment of Openstack Magnum at CERN has given the possibility to manage container orchestration engines such as Docker and Kubernetes as first class resources in Openstack.

In this poster we will show the work done to exploit a docker Swarm cluster deployed via Magnum to setup a docker infrastructure running FTS (the WLCG file transfer service). FTS has been chosen as one of the pilots to validate the Magnum and docker integration with the rest of the CERN infrastructure tools. The FTS service has an architecture that is suitable for the exploitation of containers: the functionality now offered by a VM cluster can be decomposed in dedicated containers and separately scaled according to the load and user interactions.

The pilot is under evaluation with a view to a docker-based FTS production deployment.

Primary Keyword (Mandatory)

Virtualization

Tertiary Keyword (Optional)

Secondary Keyword (Optional)

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