



Deploying Container Based FTS on Openstack Magnum

- CERN has started deploying Openstack Magnum and contributed upstream quite intensively
- Magnum allows the easy deployment and management of clusters (bays) running Kubernetes, Docker Swarm and Mesos.
- FTS (the File Transfer Engine for WLCG) has been selected as one of the Pilot for testing.
 - Interest from FTS devs to split a single VM deployment into several containers to scale out separately

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- The tested **Docker Swarm** with Docker 1.10 didn't provide the needed functionalities (waiting for 1.12 deployment)
- **Kubernetes** has proven to be a quite full-fledged solution.
 - 3 different FTS components (**REST / SERVER / Monitoring**) can be orchestrated and scale out independently
 - i.e. Server containers are launched/stopped according to the FTS transfer queue
- Next step is testing the bays scaling via Heat before planning Production deployment

