

Advanced features of the CERN OpenStack Cloud

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The CERN OpenStack cloud has been delivering a wide variety of services to its 3000 customers since it entered in production in 2013. Initially, standard resources such as Virtual Machines and Block Storage were offered. Today, the cloud offering includes advanced features such as Container Orchestration (for Kubernetes, Docker Swarm mode, Mesos/DCOS clusters), File Shares and Bare Metal, and the Cloud team are preparing the addition of Networking and Workflow-as-a-Service components.

In this presentation, we will describe these advanced features, the OpenStack projects that provide them, as well as some of the main usecases that benefit from them. We will present the ongoing work on those services that will increase functionality, such as container orchestration upgrades and networking features such as private networks and floating IPs.

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