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# The CMS openstack, opportunistic, overlay, online-cluster Cloud (CMSooooCloud)

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The CMS online cluster consists of more than 3000 computers. During the normal work it is used for the Data Acquisition of the CMS experiment at CERN. The sophisticated design and the dedicated software run on the farm allows to collect up to 20TBytes of data per day.

Considering the huge amount of computing resources under control of the HLT farm, an Openstack cloud layer has been deployed on part of the cluster (13000 cores) allowing the opportunistic usage of the cluster.

We will present the benefits of virtualization technology taking as an example the CMSooooCloud. The architecture choices, the usage of openstack cloud controller and openswitch will be shown. The presentation will cover the design and performance aspects of the current installation.

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