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Building OpenStack Cloud with Kubernetes as Undercloud

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OpenStack is an open-source cloud computing platform that provides a comprehensive set of services for building and managing private, public, and hybrid clouds. However, deploying and maintaining an OpenStack cloud can be a complex and time-consuming process. In recent years, Kubernetes has emerged as a popular container orchestration platform, making it an attractive option for managing the underlying infrastructure of OpenStack.

At CESNET we have decided to build a next-generation of OpenStack cloud utilizing Kubernetes. In this poster, we will present our new architecture for building the CESNET OpenStack cloud site using Kubernetes as the undercloud with OpenStack Helm infra based distribution. We will discuss benefits of this approach which enables simplified deployment and management of OpenStack services by leveraging the automation and scalability of Kubernetes.

Other key topic

Key Topic

Federated compute continuum

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