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ElastiCluster - automated deployment and scaling of computing and storage clusters on IaaS cloud infrastructures

Thursday, 27 April 2017 09:25 (25 minutes)

ElastiCluster is a command-line application (and a Python API) to deploy, configure, and resize various types of computational clusters on Infrastructure-as-a-Service clouds. Currently supported is the deployment of SLURM/GridEngine/TORQUE batch clusters, Spark/Hadoop systems (with Hive and HDFS), and various types of distributed filesystems (GlusterFS, OrangeFS, Ceph) on OpenStack, Google Compute Engine, and Amazon EC2. ElastiCluster leverages Ansible for maximum extensibility and customizability.

This talk will demo ElastiCluster features and give a short overview at how it's used in production at the University of Zurich and elsewhere.

Length of talk (minutes)

15

Scheduling constraints / preferences

Cannot give talk on April 24 – earliest possible date for me is Apr. 25.

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Session Classification: Grids, clouds, virtualisation

Track Classification: Grid, Cloud & Virtualisation