

OpenStack hands-on

Thursday, 22 May 2014 16:00 (1h 30m)

This hands on tutorial will introduce the OpenStack cloud middleware, focusing on the compute project (nova) we will describe its architecture, how all the components interact and what is required to run a fully functional OpenStack cloud (i.e. compute, network, image, volume storage and identity services).

The tutorial will cover the following areas:

- Overview of the OpenStack project and timeline.
- OpenStack Architecture and services.
- OCCI integration within OpenStack.
- VOMS integration within OpenStack.

The attendees will learn how to setup their own OpenStack cloud environment, covering also the installation of VOMS authentication and the support for the Open Cloud Computing Interface (OCCI).

Wider impact and conclusions

The attendees will learn how to install a functional OpenStack cloud, supporting OCCI and VOMS authentication.

Since this is a hands on tutorial, the number of participants must be limited and the participants should have some experience with Linux administration. Virtualization and networking knowledge is an asset, but it is not required for this tutorial. The participants should provide their own laptop.

Description of work

The tutorial will have a short introduction of the OpenStack project, its history and timeline, followed by an architectural overview of its components. The main part of the tutorial will be the hands-on installation and configuration of their own OpenStack cloud.

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