



'setup' course – difficulty ★★☆☆

3 days (21 hours)

Recommended for
System administrators
Solution architects

TEACHING GOALS

At the end of the course:

- ✓ You understand the **advanced OpenStack components**
- ✓ You are able to **create a robust infrastructure with OpenStack**
- ✓ You know how to **set-up High Availability** on your own cloud
- ✓ You can **make the appropriate architecture choices** to meet your expectations

Prerequisites

To have already installed an OpenStack cloud

DETAILED CONTENT

Day 1	Day 2	Day 3
<p>Advanced network management with Neutron</p> <ul style="list-style-type: none"> ✓ Review of Neutron architecture ✓ Setting up LBaaS (Load-Balancing As A Service) ✓ Setting up FaaS (Firewall As A Service) <p>The Alternative Storage System: Ceph</p> <ul style="list-style-type: none"> ✓ Functionalities and inner workings ✓ Set-up and configuration ✓ Integration with Glance, Cinder and Nova 	<p>Designate: DNS for OpenStack</p> <ul style="list-style-type: none"> ✓ Concepts and relevance ✓ Setting up non-integrated components ✓ Integration with Nova and Neutron ✓ Managing domains and entries <p>High Availability in OpenStack</p> <ul style="list-style-type: none"> ✓ Instance High Availability ✓ Migrating instances in your infrastructure 	<p>High Availability of the cloud Infrastructure</p> <ul style="list-style-type: none"> ✓ Concepts ✓ Tools ✓ High Availability of APIs ✓ High Availability of neutron ✓ High Availability of bricks (Galera, RabbitMQ) <p>Architecture elements</p> <ul style="list-style-type: none"> ✓ Network Issues ✓ Multi-site OpenStack: Availability zones, Regions, Cells