OS320: Advanced OpenStack Deployment

Course Content

Course Description:

This course provides you with a working set of lab exercises to deploy OpenStack in a private Cloud in 1 day. The content is also suitable for cloud support personnel who to understand how their OpenStack cloud was built.

The course begins with an Ubuntu environment with the stable Rocky code branch. You execute the necessary tasks to install the OpenStack components (see outline below). Typically, this involves installing 1 or more Linux packages (the code), editing 1 or more configuration files, restarting the services, & verifying your work.

At the end of the lab exercises, you have your own private cloud using all of the default drivers (such as, KVM for the hypervisor, and OVS for layer 2 networking)

Target Student:

This course is targeted at students with the following:

- **Skills:**
  - o Installing software from Linux packages
  - o Editing configuration files to enable the software
  - o The core set of OpenStack components
  - o The use of Open vSwitch (OVS) for layer 2 networking
- **Motivations:** Operate, troubleshoot, and install an OpenStack environment.
- **Roles:** System/network administrators, Technical IT Professionals, Deployment engineers, Cloud administrators, & Cloud support personnel

Topics:

Manually install and configure OpenStack & supporting services from scratch: NTP, MySQL, RabbitMQ, Keystone, Glance, Neutron, Nova, Cinder, Horizon, and Heat

This course is "lab intensive," with more than 95% of your time spent in labs. The instructor is available to help debug issues you might encounter & discuss the implementation.