OpenStack & The Cloud

Martin B. Smith @martinb3

Linux Systems Administrator Rackspace, The Open Cloud Company

February 17, 2014

The views expressed in this article are those of the author and do not necessarily represent the views of, and should not be attributed to, Rackspace. Social Media Guidelines. Open Source!

Goals

Goals for this presentation:

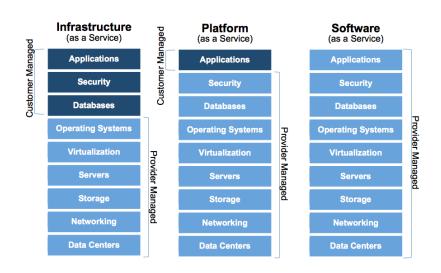
- Who is OpenStack?
- What is OpenStack?
- ► How can you OpenStack?





Reply hazy, try again.

What is the cloud?

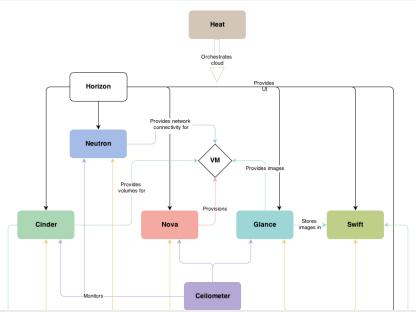


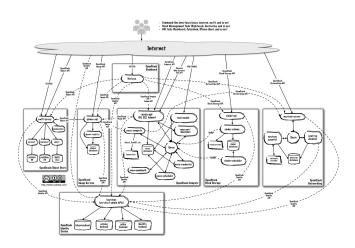


OpenStack is People

- 2010: Rackspace (Swift) & Nasa (Nova)
- 2011: Ubuntu 11.04
- 2012: Red Hat, Debian (previews)
- ▶ 2013: Red Hat, Debian

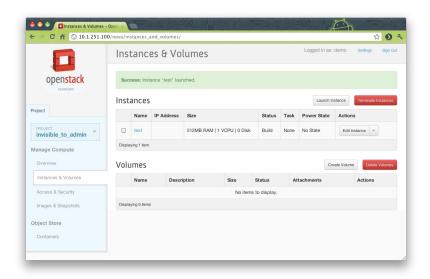


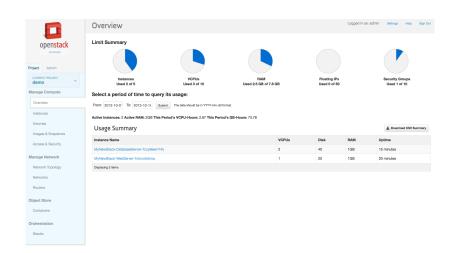




Nova, Swift, Glance, Grizzly...

- ► Install Guide for trunk
- ▶ See components, structure, etc





LIVE Demo

```
export OS_REGION_NAME="HKG"
export OS_AUTH_URL=https://id.api.example.com/v2.0/
export OS_USERNAME=openstack_username
export OS_PASSWORD=USE_KEYRING
export OS_TENANT_NAME=nova-production
export OS_AUTH_SYSTEM=rackspace
export NOVA_SERVICE_NAME=cloudServersOpenStack
export OS_PROJECT_ID=12345
export OS_NO_CACHE=1
```

LIVE Demo (2)

```
iad
snr boot gatorlug-test --flavor performance1-1
--image 2ab974de-9fe5-4f5b-9d58-766a59f3de61
--key-name cloudhosts --poll
snr show gatorlug-test
ssh -l root 162.242.244.186 -i
/.ssh/id_rsa_cloudhosts
snr delete gatorlug-test
```

Beyond the examples...

- Command line clients for everything
- SDKs for various language environments

Examples of the SDKs...

Get OpenStack

Complete Environment - devstack.org Rackspace Loves Developers - developer.rackspace.com/devtrial



Infrastructure as an API – Project Ironic Developer Portal – developer.rackspace.com



Questions? Answers!