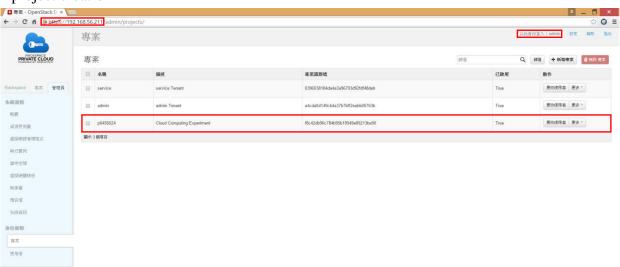
Cloud Computing Homework #1

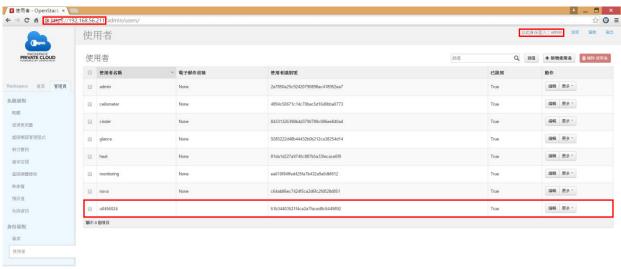
1.

• Rackspace Private Cloud Sandbox

• project creation

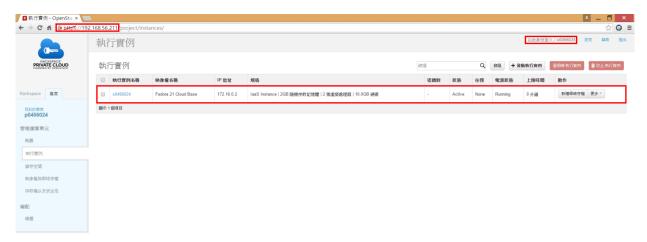


user creation

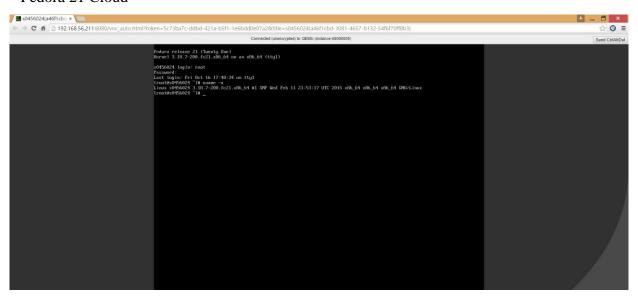


2.

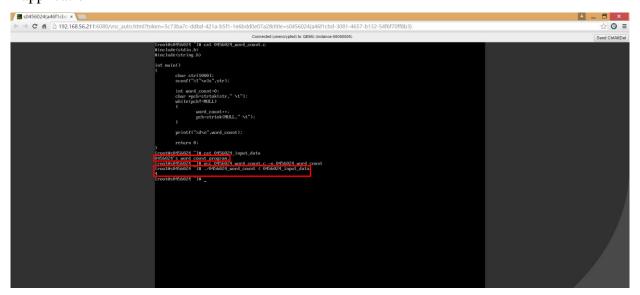
• instance creation



• Fedora 21 Cloud



• application



3.

Rackspace cloud platform implements OpenStack IaaS technology. It provides both command prompt and dashboard service - Horizon, to interact with underlying OpenStack services.

Rackspace Private Cloud Sandbox runs Rackspace Private Cloud 4.2.1. Since it is just a single node setup and system performance is dependent on the speed of network and host machine, even though QEMU is used as the hypervisor, it does not provide a high performance solution, but for testing or demonstrations.

My experiment is based on Oracle VM VirtualBox 4.3.30, Rackspace Private Cloud Sandbox 1.0 (Rackspace Private Cloud 4.2.1), and Fedora 21 Cloud.

Here are some problems I encountered:

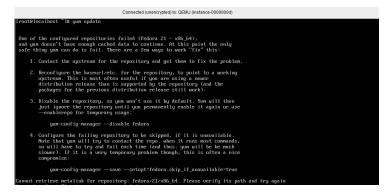
1. Instances will be inaccessible outside of the host virtual machine.

Make sure that all interactions you have with instances must occur on the host they were booted on.



2. yum update error - repositories can not be retrieved since metalink can not be verified.

The metalink in /etc/yum.repos.d/fedora.repo is actually available, and the error is due to network environment of VirtualBox. The following steps are required for functioning network of instances:



Step 1. Create and configure host-only network interface of VirtualBox



Step 2. Import and configure network setting of Rackspace Private Cloud Sandbox

