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Cloud Application Development

Open-stack lab - 8

Submitted to:

Mr. Harvinder Singh.

**Install and set up the OpenStack Nova Compute Service in step one.**

**Install the needed software packages:**

**Run the sudo apt-get update command.**

**Run sudo apt-get install -y nova-compute to install it.**

**Add the following lines to the /etc/nova/nova.conf file:**

**makefile**

**Copy the following code: transport\_url = rabbit://openstack:RABBIT\_PASS@controller auth\_strategy = keystone enabled\_apis = osapi\_compute,metadata**

**my\_ip = Management Interface IP Address use Neutron = True firewall\_driver = Nova Virtual Firewall.NoopFirewallDriver Substitute the IP address of the network interface that will be used to carry management traffic for MANAGEMENT\_INTERFACE\_IP\_ADDRESS.**

**Launch the Nova Compute service again:**

**Start the nova-compute.service by typing sudo systemctl restart.**

**Step 2: Produce and set up host aggregates**

**the creation of a host aggregation**

**Run the openstack aggregate command. the name of the aggregate**

**Compute hosts should be added to the aggregate:**

**Launch OpenStack with the command openstack aggregate add host AGGREGATE\_NAME COMPUTE\_HOST\_NAME.**

**Set the host aggregate's metadata as follows:**

**Execute the command**

**Create flavour with resource allocation in step 3**

**Develop a flavour:**

**Run the openstack flavour command. Create with the options RAM\_SIZE, DISK\_SIZE, VCPU\_COUNT, and FLAVOR\_NAME.**

**The desired numbers should be substituted for RAM\_SIZE, DISK\_SIZE, VCPU\_COUNT, and FLAVOR\_NAME.**

**Allocating Resources to the Host Aggregate in Step Four**

**Set the host aggregate's resource allocation ratio as follows:**

**Run openstack aggregate set --property cpu\_allocation\_ratio=ALLOCATION\_RATIO AGGREGATE\_NAME to set the CPU allocation ratio.**

**Substitute the desired ratio for ALLOCATION\_RATIO.**

**Set the host aggregate's flavour additional specs:**

**Run openstack flavour set --property AGGREGATE\_INSTANCE\_EXTRA\_SPECS='"aggregate\_instance\_extra\_specs:KEY": "VALUE"" FLAVOR\_NAME**

**The extra specs key-value pair should be used in place of KEY and VALUE.**

**Launch an instance using the allocated resources in step five.**

**Start an instance of the new flavour:**

**Run the command openstack server create --flavour FLAVOR\_NAME --image IMAGE\_NAME --nic net to construct a virtual machine.--security-group SECURITY\_GROUP\_NAME INSTANCE\_NAME -id=NETWORK\_ID**

**Delete the instance and clean up in step six.**

**Get rid of the instance:**

**Run the openstack server delete command. INSTANCE\_NAME**

**Get rid of the flavour:**

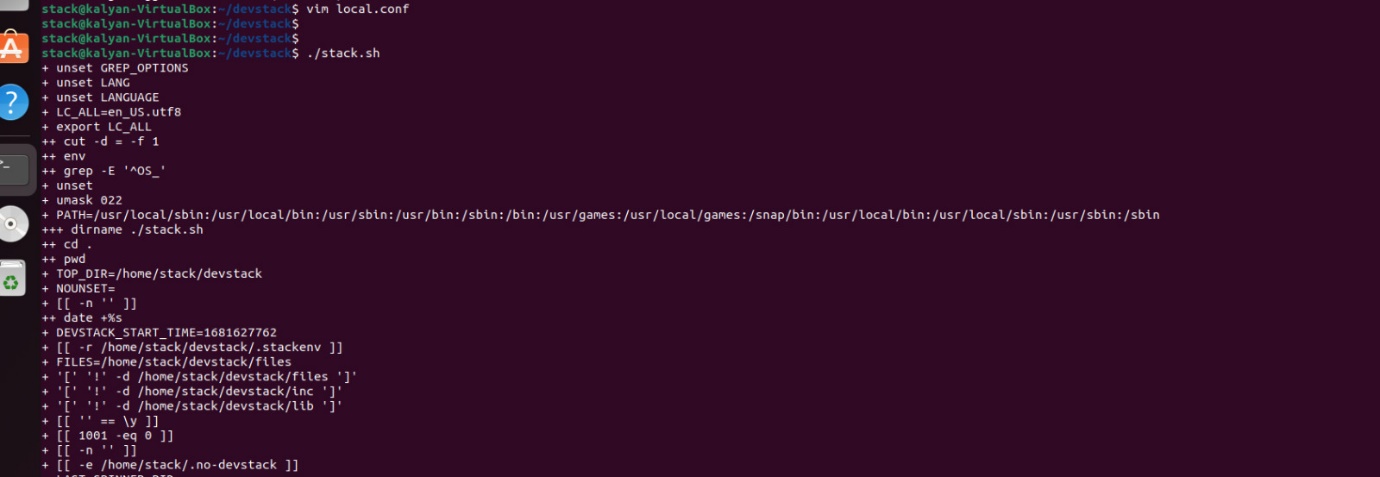
**Run the openstack flavour delete command. FLAVOR\_NAME**

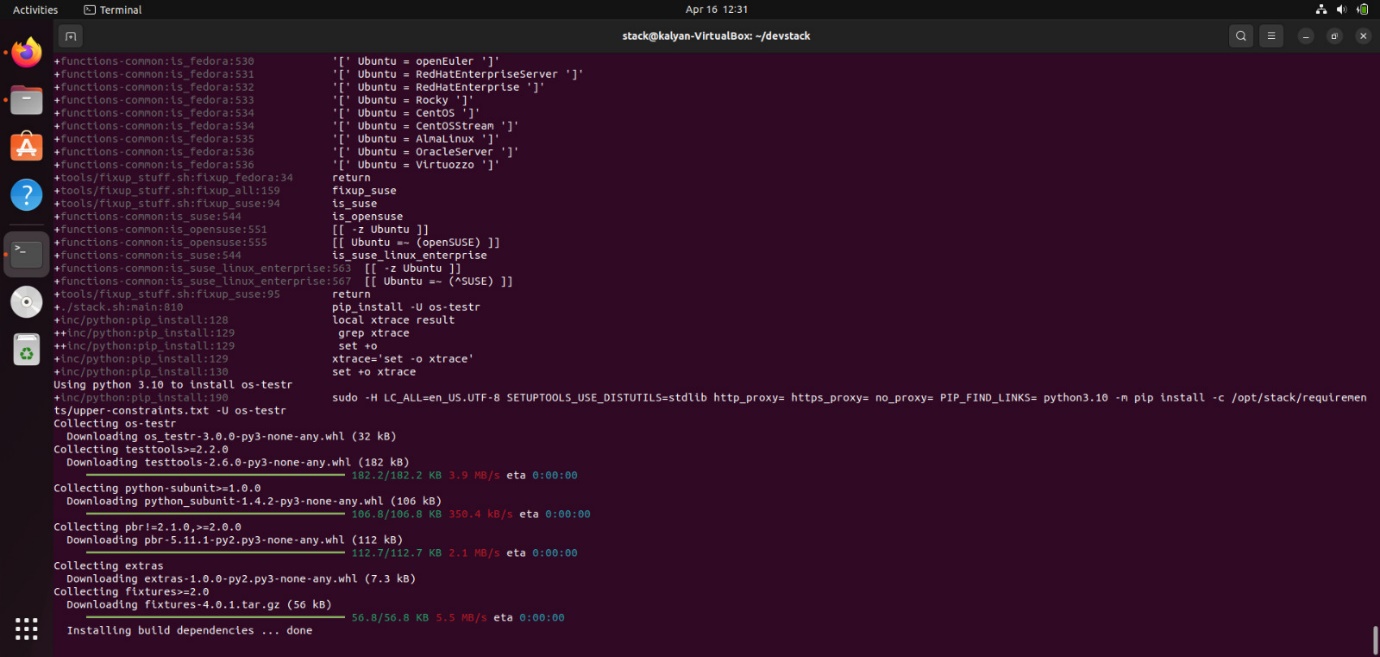
**Take the compute host out of the host group:**

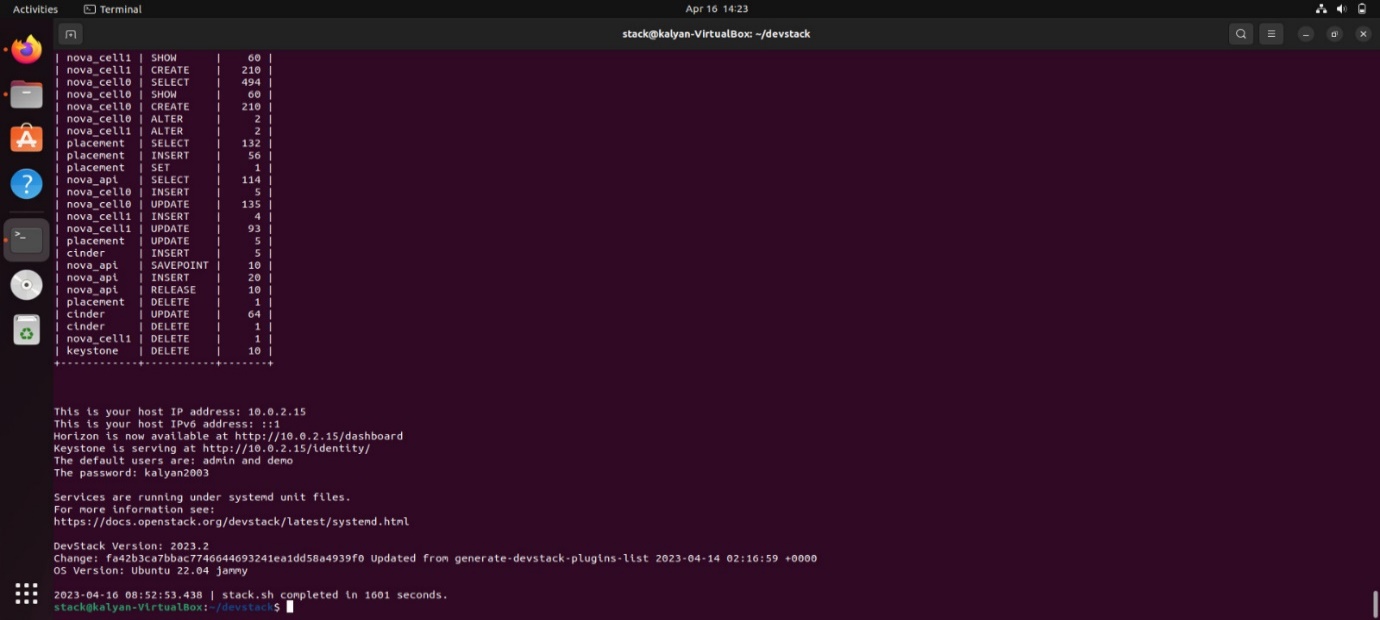
**Enter openstack aggregate delete host AGGREGATE\_NAME into the command line COMPUTE\_HOST\_NAME**

**A host aggregate should be removed:**

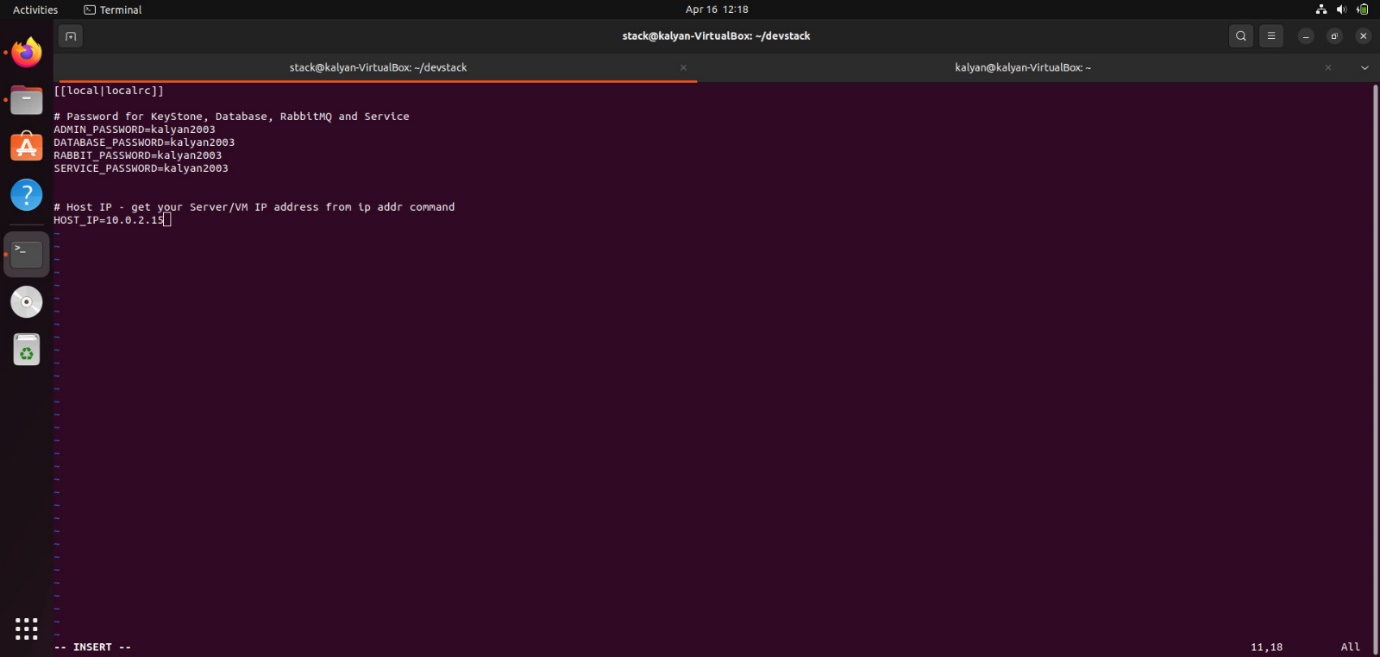
**Run the openstack aggregate delete command. AGGREGATE\_NAME**

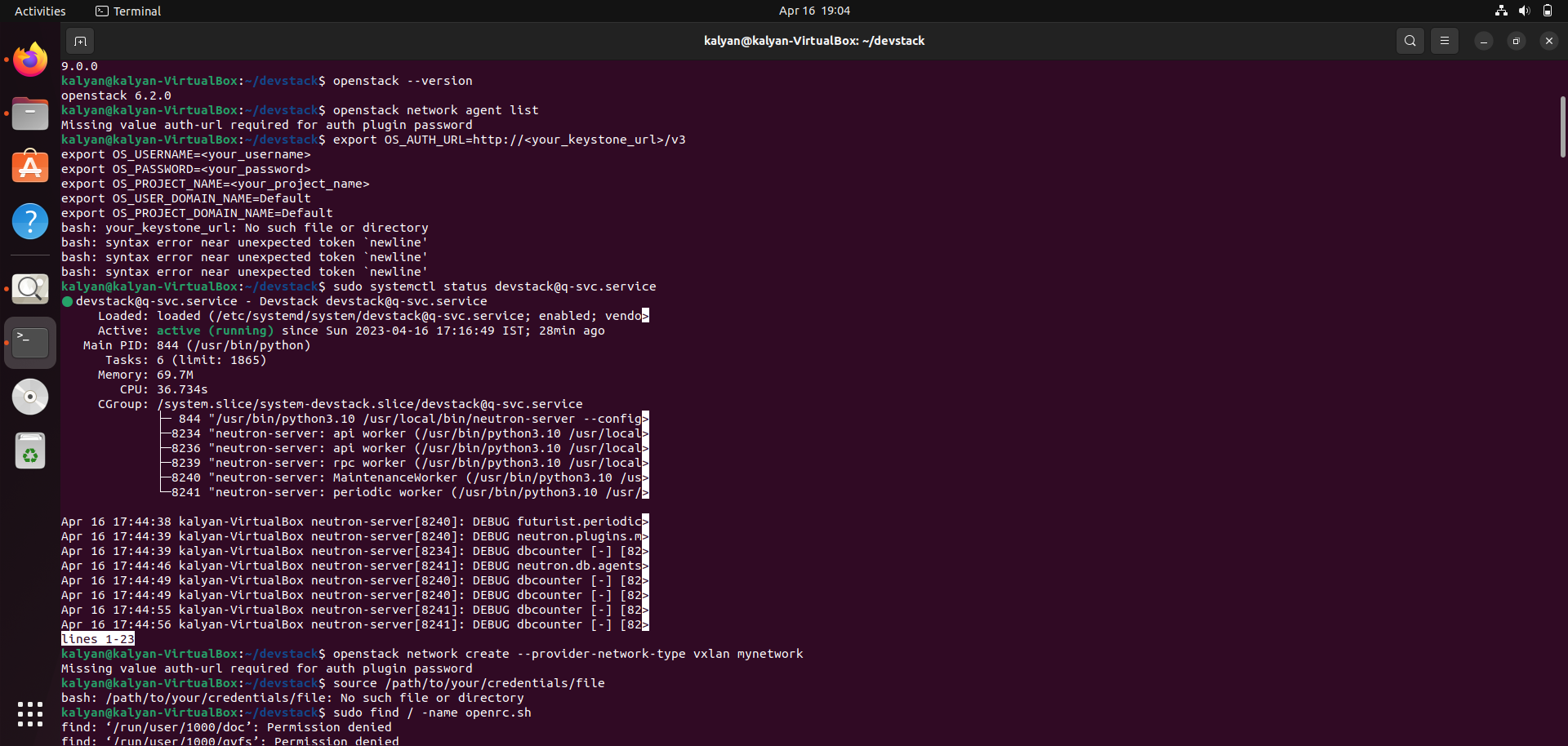
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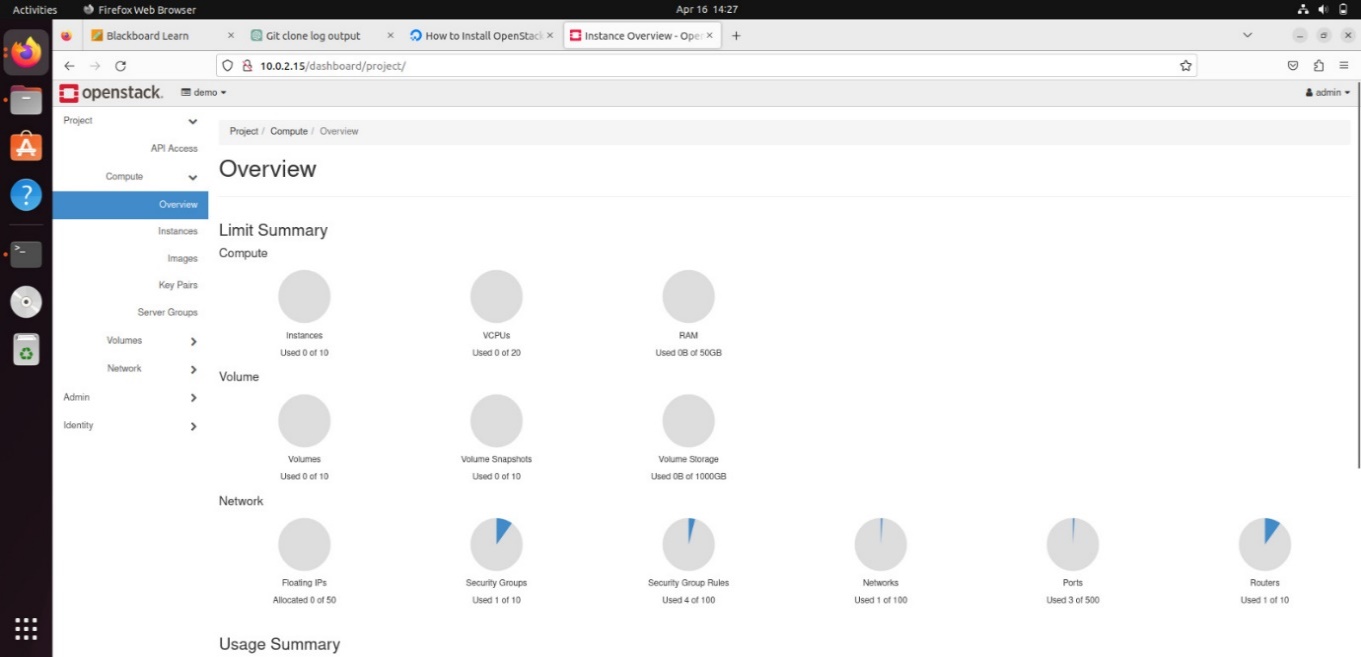
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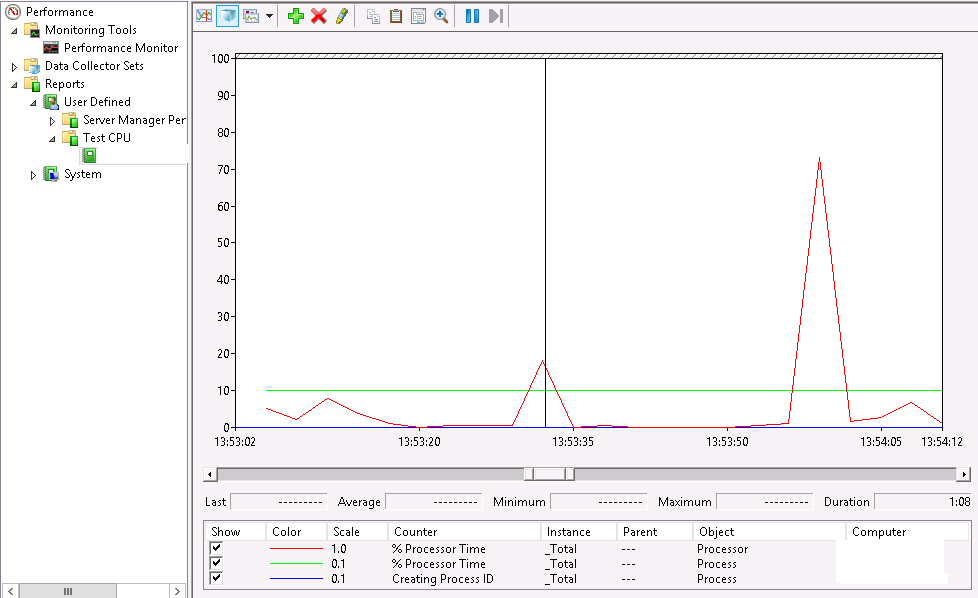
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