

**CLOUDCRAFT**

**(A Dan Rusak Solution)**

Cloudcraft is a java application utilizing the Apache Jclouds API developed to investigate and facilitate application provisioning on Atos development platforms onto user-characterized virtual machines utilizing specified providers (Openstack, AWS ..). It is designed to accept user input to set up specific environments on a single or multiple nodes (e.g. SPECVIRT) and provision an application or applications on each node.

Its primary value currently is as a *tool* to navigate the complexity of open source cloud providers, e.g. ‘Openstack’, without getting entangled in existing provisioning mechanisms.

Its secondary goal may be to mature into a commercial application on its own for integration into Atos Cloud products.

Accepting command line input from the user it currently accomplishes the following:

* Initializes diagnostic capabilities (for user confirmations and debug)
* Connects and receives a context from a cloud provider (e.g. Openstack, AWS (to be tested)).
* Depending on user input may clean existing node(s) from the cloud at group level, releasing all previous allocated resources.
* Allocates new nodes tailored to hardware configuration (#cpu, memory ..) and instantiates a user specified O.S. (Centos, Ubuntu .. ).
* Enables orchestration between nodes (courtesy of Neutron).
* Requests creation of , retrieves, and stores locally public/private keys for potential ssh operations by the user from the controller.
* Requests creation of , retrieves, and stores locally a public ip for VM login by the user should the user want to work directly within the node.
* Requests creation of , retrieves and stores locally in a Hosts/ip map a private ip to enable an intercommunication capability between each created node.
* Enables ‘ssh’, ‘icmp’, and ‘http’, ‘udp’ ingress on all nodes by default.
* Uploads a cloud-init config. Current use is to set hostname properly.
* Utilizes a custom network created on the Openstack dashboard, ‘virganet’, to establish a private ip pool to allocate from. And allocates fixed ips by user request to the nodes that require them.
* Sets node group name based on the provisioning name for instance identification on the Openstack dashboard.
* Locates and uploads the user specified provisioning archive to each new node.
* Uploads the current generated Hosts/ip map to each node. The application can specify that this map becomes part of its ‘hosts’ file to enable communication with other VMs.
* De archives the previously uploaded provisioning archive on the node(s).
* Install ‘GIT’, clone the de archived cookbook, and invoke ‘CHEF SOLO’ on each node to complete the provisioning.

NOTE: User applications may have dependencies on other applications. An example is the Log Server capability. Each command (below) that the user wants to log to the Log Server can specify the corresponding logging client to utilize it as part of the command interface.

NOTE: the user can optionally skip this phase and opt to manually connect to the node(s) to walk through the Chef recipes for recipe debug.

* Post processes all newly created nodes to enable capabilities required across all nodes, such as NFS and SSH between VM clients.

Cloudcraft and Horizon differences

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Openstack Horizon /Cloudcraft capabilities | |
|  |  |  |  |
|  |  | horizon | cloudcraft |
|  | launch vm | x | x |
|  | batch launch vms |  | x |
|  | set specific private ip |  | x |
|  | set specific floating ip |  | x |
|  | keys generation |  | x |
|  | monitor | x |  |
|  | snapshot | x |  |
|  | provision |  | x |
|  | cloud-init.cfg | x | x |
|  | pre-scripting | x | x |
|  | post-scripting | x | x |
|  | remove vms | x | x |
|  | host ip map |  | x |
|  | connection history |  | x |
|  | advanced post processing |  | x |
|  | port create |  | x |
|  | network create | x |  |
|  | login user interface | x(ugly) | x(better) |

How is cloudcraft used? An example using the Elk server

Rogue:141.112.17.7

VM

Cloudcraft

Openstack api

Neutron cli

jclouds

141.112.17.7

rogue

Developer config

input

input

Redevelop?

Host logger

Cut a new image?

Horizon

Browser

Snapshot

***elkimage***

diags

Cloudcraft Provision Phase (R&D)

Openstack components

User interface ssh

Openstack interface api

Logstashelastic kibana

172.24.4.227

191.0.1.110

VM2

VM

Cloudcraft cli .. *CloudCraft -i ubuntu -p elk -fip 172.24.4.227 –pip 191.0.1.110 -z*

Raw Image ubuntu centos

Elk

cookbook

e.g. elk

e.g.elk

Nova cli

Jclouds api

Rogue:141.112.17.7

VM

Cloudcraft

Openstack api

Neutron cli

jclouds

141.112.17.7

rogue

Nova cli

Jclouds api

Openstack interface api

Cloudcraft execution phase

***elkimage***

Openstack components

Horizon

logs

Browser

Host logger

User interface ssh

Logstashelastic kibana

172.24.4.227

191.0.1.110

VM2

VM

Cloudcraft cli .. *CloudCraft -i elkimage -fip 172.24.4.227 –pip 191.0.1.110*

**OPERATIONAL CONSIDERATIONS**

VM

Development system: 141.112.17.7 (rogue) located in Phoenix.



Rogue was installed with Centos 6.5 Final and upgraded with Gnome capability .

Java 1.7.0\_65 was installed for local compiles.

Installed Chef to make ‘Knife’ available, primarily to access canned cookbooks from Web sources.

Installed Maven to enable POM download mechanism (e.g. Jclouds).

/etc/rc.d/rc.local was augmented with

**#dpr next 3 lines so can get out to internet from VMs as required**

**iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE**

**iptables -A FORWARD -i eth0 -o eth1 -m state --state RELATED,ESTABLISHED -j ACCEPT**

**iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT**

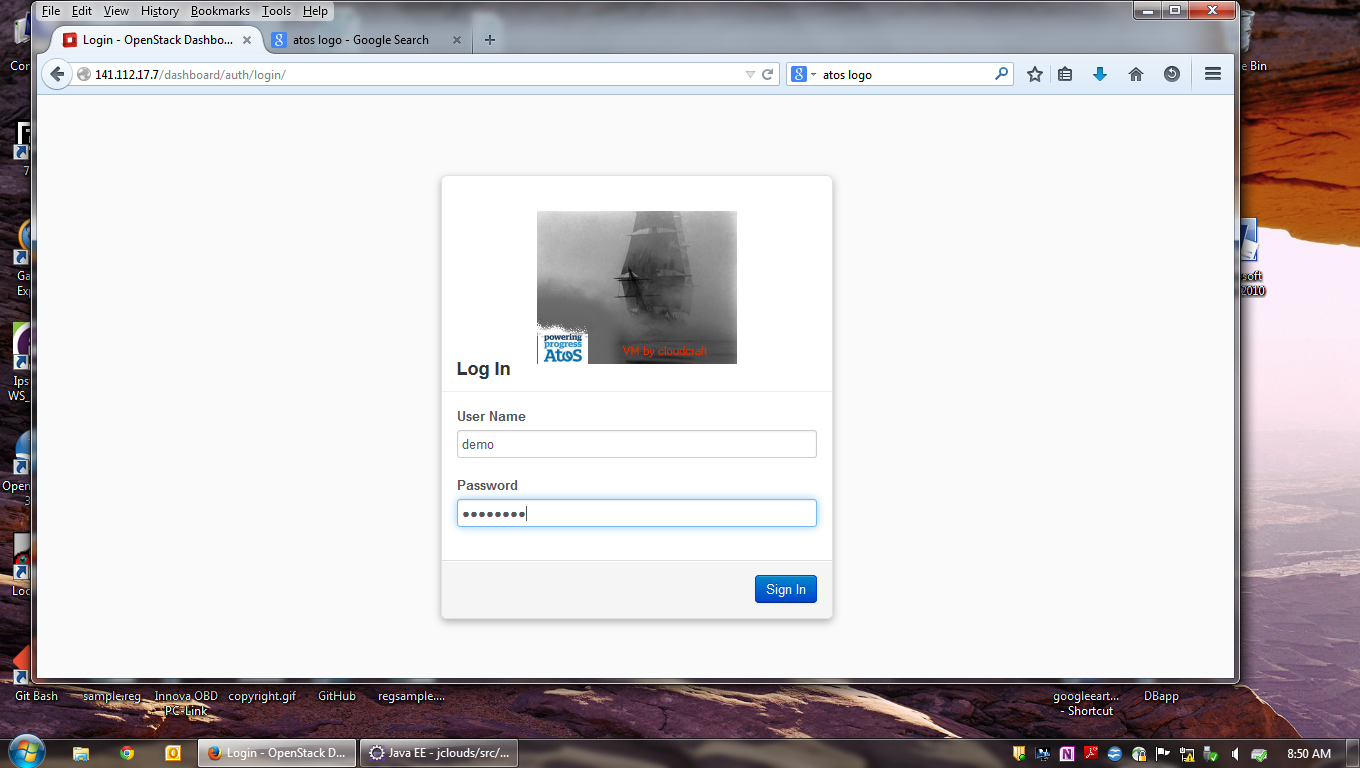
**#dpr forward http requests to VM on** 172.24.4.227

iptables -A PREROUTING -t nat -i eth0 -p tcp --dport 80 -j DNAT --to 172.24.4.227:8080

iptables -A FORWARD -p tcp -d 172.24.4.227 --dport 8080 -j ACCEPT

**Openstack**

Openstack ‘Icehouse’ was installed. The dashboard was been branded with ‘Atos’, configured with a long timeout and can be accessed at ‘141.112.17.7/dashboard’ as ‘demo’ / ‘demo’.



**The Centos VM Image**

The Centos image used as the base OS for provisioning required tailoring to become suitable for provisioning and provide a more useful development environment.

The initial image, ‘centos-6.5-20140117.0.x86\_64.qcow2’ was ferreted out on the web and installed under a web server on a box in Phoenix. This was necessary because Openstack/glance did (does?) not yet support loading images directly from file structures but have to be uploaded from a URL.

The Openstack dashboard was used to create the base centos image used by Cloudcraft by accessing the above file as a URL and saving it in Openstack’s image cache.

An instance was started from the dashboard using the created image and set up with a floating ip and private credentials to enable login from ssh connections.

Once logged in to this image several modifications were made to the OS.

* Chef Solo was installed to process cookbooks on newly instantiated nodes.
* Java was installed to allow provisioning to compile software.
* Make was installed to allow provisioning to build software.
* Yum was installed to allow provisioning to install software.
* Nameserver 8.8.8.8 was set up persistently to allow provisioning to access the web.
* SSHD was modified to allow root logins without a text preamble that will destroy attempts to login as root.
* ‘cloud-user’ was set up as a log in with password ‘cloud-user’ and sudo permissions granted.
* Disabled selinux on the base OS to prevent provision ‘restorecon’ permission errors on file provisions.
* Added repositories necessary for provisioning (EPEL, etc…)

Once the image was fortified for provisioning a snapshot was taken from the dashboard and a new image created.

This image became the raw image for use by Cloudcraft in provisioning operations when the ‘-i centos’ parameter is selected on the command line, or there is no ‘-i’ option specified, as ‘centos’ is the default.

**The Ubuntu VM Image**

The Ubuntu image used as the base OS for provisioning required tailoring to become suitable for provisioning and provide a more useful development environment.

It went through a process similar to the above Centos massage, for example requiring ‘apt’ instead of ‘yum’, etc.,. but has not been utilized or investigated much at this point because only Centos(6.5) or RHEL will work with SPECVIRT (see Appendix B. for special SPECVIRT considerations), which was the initial rationale for developing a provisioning system. It’s there. It loads.

**The** RHEL **VM Image**

Not available at this time. Do we want one? This author can’t obtain one in any case.

**Build Cloudcraft**

Note: source is maintained by an Eclipse ide on a remote windows platform and uploaded to rogue then compiled locally via:

Under rogue:/home/jcloud execute

***javac -classpath "/home/jcloud//target/dependency/\*" \*.java***

to build the current Cloudcraft object jar.

Example:

**[dan@rogue jcloud]$ javac -classpath "/home/jcloud//target/dependency/\*" \*.java**

**Note: CloudCraft.java uses or overrides a deprecated API.**

**Note: Recompile with -Xlint:deprecation for details.**

**Run Cloudcraft** (*see following section on setting up a provisioning file below*)

Current command line options:

**[dan@rogue jcloud]$ java -classpath "/home/jcloud//target/dependency/\*:" CloudCraft -h <CloudCraft:> -v : verbose**

**<CloudCraft:> -h : help (this list)**

**<CloudCraft:> -c : create node only**

**<CloudCraft:> -stack [loadfile] run stack from file eg ' -s specvirt'**

**<CloudCraft:> -p [application1,application2..] : create node, upload & provision applications.**

**<CloudCraft:> -nb : dont block on the provisioning**

**<CloudCraft:> -d : destroy existing matching instances**

**<CloudCraft:> -da : destroy ALL existing instances**

**<CloudCraft:> -eo : create node and set environment from cookbook**

**but DO NOT provision with Chef**

**<CloudCraft:> -i centos (default: use centos imageid**

**<CloudCraft:> -i ubuntu : use ubuntu imageid**

**<CloudCraft:> -g [group name] (default: 'application name'**

**<CloudCraft:> vvvvvvvvvvv examples vvvvvvvvvvv**

**<CloudCraft:> -c -i ubuntu : create ubuntu node and exit**

**<CloudCraft:> -p idleserver : create centos node, upload & provision idleserver,**

**destroy existing nodes**

**wait for provisioning**

**<CloudCraft:> -p webserver : create centos node, upload & provision webserver,**

**leave existing nodes intact,**

**wait for provisioning**

**<CloudCraft:> -p dbserver -nb : create centos node, upload & provision dbserver,**

**leave existing nodes intact,**

**don't wait for provisioning**

**Command line examples**:

<CloudCraft:> -c : create raw centos node (by default) and exit

<CloudCraft:> -c -i ubuntu : create raw ubuntu node (by request) and exit

CloudCraft -p syslog-ng -da -ip 191.0.1.110 : destroy existing nodes by request, create centos node, upload & provision syslog-ng (a log server) and establish its fixed ip.

CloudCraft -p syslog-ngclient,idleserver -ip 191.0.1.111 : create centos node, upload & provision syslog-ngclient to use the log server (at 191.0.1.110 above) upload and provision specvirt’s idleserver and establish its fixed ip for the other specvirt apps.

<CloudCraft:> -p webserver -da : create centos node, destroy existing nodes by request, upload & provision webserver

<CloudCraft:> -p dbserver -nb : create centos node, upload & provision dbserver, \*don't wait for provisioning by request\*.

<CloudCraft:> -p demo –n 4 : create node, upload & provision 4 instances (by request) of demoserver

<CloudCraft:> -p demo –dp : create node, upload files but do not provision by request

**<CloudCraft:> -p dbserver -eo : create centos node, upload cookbook to dbserver, But DO NOT invoke Chef. NOTE .. using the key provided by Cloudcraft the user can ssh in to the new node and manually input recipe commands to observe their effect.**

<CloudCraft:> -s specvirt : load file ‘specvirt’, pull the command line inputs from it instead of user input and execute each syncronously.

NOTE: extra post provision commands can be performed on each node by the inclusion of a @ppvmd ‘command xxx’ line after each application. This was introduced to accommodate current Openstack shortfalls in the static ip arena (see Appendix B for a discussion of specvirt problems).

*For example this command*

**[dan@rogue jcloud]$*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -s specvirt***

with this ‘specvirt’ file content :

**#note .. post provisioning commands can be added here with @ppcmd .. for now they need to be ahead of the app ..**

**#**

**#As the final operation, reset specclient and or specdriver keys into each root**

**@ppcmd 'service nfs restart; sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p infraserver -da**

**@ppcmd 'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p idleserver**

**@ppcmd 'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p appserver**

**@ppcmd 'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p mailserver**

**@ppcmd 'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p dbserver**

**@ppcmd 'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**#**

**#**

**#infraserver export and appserver must be accessible for webserver nfs**

**#along with the infra exportfs this needs to happen in post, else the mount is refused**

**@ppcmd 'mount infraserver1:/home/webfiles/downloads /var/www/html/support/downloads; sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'**

**-p webserver**

will cause Cloudcraft to clear all current VM resources and cycle though each line and provision the 6 SPECVIRT tiles without further user interaction. The command **'service nfs restart'** will be executed on ‘infraserver’ after the Chef recipe is executed. The command 'mount infraserver1:/home/webfiles/downloads /var/www/html/ support /downloads' will be executed on webserver after its Chef recipe is completed. This obviously is to complete an NFS hookup on the webserver against data on infraserver after all the servers are running.

Further the command **'sudo mv /root/.ssh/authorized\_keysBK /root/.ssh/authorized\_keys'** will be executed on each client to restore the specvirt root public keys.

*NOTE:* This procedure was implemented to work around Openstack’s inability to allow a user to specify static ips. However, with the implementation of Neutron it is possible to wrap a static ip in a user-created port and have Openstack use that port at instantiation which Cloudstack has now been coded for. This will be applied to specvirt. However this post-commanding capability will be retained for potential other uses.

Alternative Specvirt provisioning (including a log server) using simple bash scripting

A bash script containing this set

*#!/bin/sh*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ng -da -ip 191.0.1.110*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,idleserver -ip 191.0.1.111*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,infraserver -ip 191.0.1.112*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,webserver -ip 191.0.1.113*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,dbserver -ip 191.0.1.114*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,appserver -ip 191.0.1.115*

*java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -p syslog-ngclient,mailserver -ip 191.0.1.116*

results in this topology ..

/var/log/…

rogue

CloudCraft /Openstack controller

Horizon

Syslog-ng server

specvirts

The results can be evaluated visually from the Openstack Dashboard (Horizon) ..



And from the Cloudstack provided diagnostics (note these diagnostics can be enhanced via the ‘-v’ (verbose) option on the command line for detailed information. They are excellent sources to determine provisioning problems).

‘rogue:/home/jcloud/cloudcraft.log’ ..

INFO 12:36:38,549 CloudCraft.java - cloudcraft.log

INFO 12:36:38,552 CloudCraft.java - CloudCraft 4Jlog

INFO 12:36:38,566 CloudCraft.java - <CloudCraft:> recipeList : idleserver

INFO 12:36:38,567 CloudCraft.java - <CloudCraft:> vvvvvvvvvvv init:

INFO 12:36:38,572 CloudCraft.java - <CloudCraft:> get context:

INFO 12:36:40,106 CloudCraft.java - <CloudCraft:> context: {backend={providerMetadata={id=openstack-nova, name=OpenStack Nova Diablo+ API, api={id=openstack-nova, name=OpenStack Nova Diablo+ API, views=[org.jclouds.compute.ComputeServiceContext], endpointName=Keystone base url ending in /v2.0/, identityName=${tenantName}:${userName} or ${userName}, if your keystone supports a default tenant, credentialName=Optional.of(${password}), documentation=http://api.openstack.org/, api=interface org.jclouds.openstack.nova.v2\_0.NovaApi}, endpoint=http://141.112.17.7:5000/v2.0/, console=Optional.absent(), homepage=Optional.absent(), linkedServices=[openstack-nova], iso3166Codes=[]}, identity=demo:demo}, backendType=org.jclouds.rest.ApiContext<org.jclouds.openstack.nova.v2\_0.NovaApi>}

INFO 12:36:40,106 CloudCraft.java - <CloudCraft:> Execute 'context.getComputeService()'

INFO 12:36:40,107 CloudCraft.java - <CloudCraft:> Execute 'build template'

INFO 12:36:40,107 CloudCraft.java - <CloudCraft:> try imageid/name : RegionOne/b950b4cf-2ef4-4050-8d40-f95ab675c2cd:c65x7

INFO 12:36:40,916 CloudCraft.java -

<CloudCraft:>

Optioned to teardown existing instances

INFO 12:36:40,916 CloudCraft.java - @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

INFO 12:36:40,916 CloudCraft.java - <CloudCraft:> >> destroying all previous instances

INFO 12:36:48,573 CloudCraft.java - <CloudCraft:> >> destroyed all instances

INFO 12:36:48,573 CloudCraft.java - @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

INFO 12:37:05,711 CloudCraft.java - <CloudCraft:> localkey is setup:>

INFO 12:37:05,715 CloudCraft.java - <CloudCraft:> >>>> acquire private address idleserver-a0e

.

.

.

.

.

.

‘rogue:/home/jcloud/provision.txt’ ..

CloudCraft\_1.2.4:\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*provision log\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*<CloudCraft:> recipeList : idleserver

<CloudCraft:> vvvvvvvvvvv init:

<CloudCraft:> get context:

<CloudCraft:> context: {backend={providerMetadata={id=openstack-nova, name=OpenStack Nova Diablo+ API, api={id=openstack-nova, name=OpenStack Nova Diablo+ API, views=[org.jclouds.compute.ComputeServiceContext], endpointName=Keystone base url ending in /v2.0/, identityName=${tenantName}:${userName} or ${userName}, if your keystone supports a default tenant, credentialName=Optional.of(${password}), documentation=http://api.openstack.org/, api=interface org.jclouds.openstack.nova.v2\_0.NovaApi}, endpoint=http://141.112.17.7:5000/v2.0/, console=Optional.absent(), homepage=Optional.absent(), linkedServices=[openstack-nova], iso3166Codes=[]}, identity=demo:demo}, backendType=org.jclouds.rest.ApiContext<org.jclouds.openstack.nova.v2\_0.NovaApi>}

<CloudCraft:> Execute 'context.getComputeService()'

<CloudCraft:> Execute 'build template'

<CloudCraft:> try imageid/name : RegionOne/b950b4cf-2ef4-4050-8d40-f95ab675c2cd:c65x7

<CloudCraft:>

Optioned to teardown existing instances

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> >> destroying all previous instances

<CloudCraft:> >> destroyed all instances

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> localkey is setup:>

<CloudCraft:> >>>> acquire private address idleserver-a0e

<< acquire private address 'idleserver-a0e<< {output=eth0 Link encap:Ethernet HWaddr FA:16:3E:DE:21:EE

inet addr:191.0.1.108 Bcast:191.0.1.255 Mask:255.255.255.0

inet6 addr: fe80::f816:3eff:fede:21ee/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:223 errors:0 dropped:0 overruns:0 frame:0

TX packets:217 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:29660 (28.9 KiB) TX bytes:23257 (22.7 KiB)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:16436 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

, error=, exitStatus=0}

.

.

.

. [2014-11-16T14:38:05-05:00] INFO: Processing execute[run-stop-iptables] action run (idleserver::default line 55)

[2014-11-16T14:38:05-05:00] INFO: execute[run-stop-iptables] ran successfully

[2014-11-16T14:38:05-05:00] INFO: Processing execute[run-pollme] action run (idleserver::default line 61)

[2014-11-16T14:38:05-05:00] INFO: execute[run-pollme] ran successfully

[2014-11-16T14:38:05-05:00] INFO: Chef Run complete in 4.605710257 seconds

[2014-11-16T14:38:05-05:00] INFO: Running report handlers

[2014-11-16T14:38:05-05:00] INFO: Report handlers complete

, error=, exitStatus=0}<CloudCraft:> recipeList : infraserver

<CloudCraft:> vvvvvvvvvvv init:

**Setting up a provisioning file**

Provisioning is accomplished by using the Jclouds api to first upload an archive (‘tar’) file containing a chef cookbook, extracting it on the target VM and then executing Chef on the node against the expanded cookbook.

The development cookbooks reside under rogue:/home/jcloud/cookbooks, (including the SPECVIRT tiles).

Currently all archived representations of these cookbook files are stored under rogue:/home/jcloud/recipes to be accessed by CloudCraft.

After a cookbook is developed or modified it must be archived for pickup and upload.

For example:

After altering the files for recipe ‘demoserver’ under ‘rogue:/home/jcloud/cookbooks/ demoserver’

Execute under ‘rogue:/home/jcloud’

[dan@rogue jcloud]$ ***tar cvfz recipes/recipe\_demoserver.tar.gz cookbooks/demoserver***

at which time it is ready to be picked up by Cloudcraft by specifying its recipe name in the ‘-p [application] parameter .. e.g.

***java -classpath "/home/jcloud/target/dependency/\*:." CloudCraft –p demoserver***

***(Appendix A contains representative console output from this command).***

**Future Development**

**Graphical User Interface**

Command line driven applications can be confusing to use. It would be desirable to have a user interface that can more easily direct the user through provisioning options and hide the architectural details involved. Also this would provide a user-friendly feedback mechanism and potential monitoring (something other products, like Cloudify, appear to do very well).

Since Cloudcraft is already being developed in Eclipse, it would not be a great effort to extend the code to operate as an *Eclipse RCP*. Whether or not this is preferable over another implementation, e.g. a *Webapp*, is to be determined. RCPs can be heavy clients plus would require a graphical environment installed on Linux boxes to run on Linux versions. However perhaps a Linux GUI is unnecessary and a Windows-only interface would suffice. Some experimentation will be performed from a Windows portal behind the Atos firewall soon to determine if there are any issues operating a Jclouds api from a Windows machine separate from the Linux platform targeted to contain the VM.

*For example, although it has been demonstrated that Cloudcraft can create nodes across this environment, even from a remote outside of Atos , trying to obtain an SSH client from the created node for provisioning hangs. But this well just may be a problem with using VPN since its use is necessary to get through the Atos firewall. The portal used to provide the centos image, as detailed at the top, will be utilized to experiment with this.*

**Appendix A.**

A complete console output example

[dan@rogue jcloud]$ java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -s specvirt

<CloudCraft:> Version : 1.2.4

<CloudCraft:> >>>>User arg[0] = -s

<CloudCraft:>post log4j level set to:INFO

<CloudCraft:> vvvvvvvvvvv acquire context:

<CloudCraft:> get context:

<CloudCraft:> context: {backend={providerMetadata={id=openstack-nova, name=OpenStack Nova Diablo+ API, api={id=openstack-nova, name=OpenStack Nova Diablo+ API, views=[org.jclouds.compute.ComputeServiceContext], endpointName=Keystone base url ending in /v2.0/, identityName=${tenantName}:${userName} or ${userName}, if your keystone supports a default tenant, credentialName=Optional.of(${password}), documentation=http://api.openstack.org/, api=interface org.jclouds.openstack.nova.v2\_0.NovaApi}, endpoint=http://141.112.17.7:5000/v2.0/, console=Optional.absent(), homepage=Optional.absent(), linkedServices=[openstack-nova], iso3166Codes=[]}, identity=demo:demo}, backendType=org.jclouds.rest.ApiContext<org.jclouds.openstack.nova.v2\_0.NovaApi>}

<CloudCraft:> Execute 'context.getComputeService()'

<CloudCraft:> Execute 'build template'

<CloudCraft:> try imageid/name : RegionOne/7d8f2b2f-2889-4ff9-b423-364a858bd756:c65x8

<CloudCraft:> >>>>User Specified stack file specvirt

**<CloudCraft:> >>>> CREATE**

<CloudCraft:> >>>>User Specified recipe input :-p infraserver -da

<CloudCraft:> >>>>User Specified recipe :infraserver

userData = #cloud-config

hostname: infraserver1

fqdn: infraserver1.atos.net

<CloudCraft:> Working on node : 0

<CloudCraft:> recipeList : infraserver

<CloudCraft:> Optioned to teardown existing instances

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> >> destroying all previous instances

<CloudCraft:> >> destroyed all instances

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> Execute 'createNodesInGroup(infraserver)'

<CloudCraft:> Back from 'compute.createNodesInGroup(basegroup, maxNumberOfInstances, template)'

<CloudCraft: localkey: keys/infraserver1key has been set up:>

<CloudCraft:> >>>> acquire private address infraserver-483

<CloudCraft:> process response from acquire private address infraserver-483

<< acquire private address infraserver-483............ Private ip=191.0.1.116

<CloudCraft:>

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> Instance Number 0

<CloudCraft:> rID = 07f7f086-6de9-4d81-975e-a1aceeda1e40

<CloudCraft:> nodename = infraserver-483

<CloudCraft:> group = infraserver

<CloudCraft:> port = 22

<CloudCraft:> node status = RUNNING

<CloudCraft:> Image Name = c65x8

<CloudCraft:> recipename = INFRASERVER

<CloudCraft:> Login = cloud-user

<CloudCraft:> floating ip = 172.24.4.229

<CloudCraft:> private ip = 191.0.1.116

<CloudCraft:> you can manually connect with :

ssh -i /home/jcloud/keys/infraserver1key -l root 172.24.4.229

AND/OR

ssh -i /home/jcloud/keys/infraserver1key -l cloud-user 172.24.4.229

<CloudCraft:> depending on the provisioned application's permissions

<CloudCraft:> execute ' echo "" > /home/dan/.ssh/known\_hosts ' if need to override strict permissions

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:>

<CloudCraft:> Update Cached IP:Hostname file

<CloudCraft:> 191.0.1.116 infraserver1

<CloudCraft:> Update Group:id

<CloudCraft:> infraserver 07f7f086-6de9-4d81-975e-a1aceeda1e40

<CloudCraft:> >>>>User Specified recipe input :-p webserver

<CloudCraft:> >>>>User Specified recipe :webserver

userData = #cloud-config

hostname: webserver1

fqdn: webserver1.atos.net

<CloudCraft:> Working on node : 1

<CloudCraft:> recipeList : webserver

<CloudCraft:> Execute 'createNodesInGroup(webserver)'

<CloudCraft:> Back from 'compute.createNodesInGroup(basegroup, maxNumberOfInstances, template)'

<CloudCraft: localkey: keys/webserver1key has been set up:>

<CloudCraft:> >>>> acquire private address webserver-b33

<CloudCraft:> process response from acquire private address webserver-b33

<< acquire private address webserver-b33............ Private ip=191.0.1.117

<CloudCraft:>

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> Instance Number 1

<CloudCraft:> rID = 8e8b49d9-a594-41b1-abd9-8952d0e33de6

<CloudCraft:> nodename = webserver-b33

<CloudCraft:> group = webserver

<CloudCraft:> port = 22

<CloudCraft:> node status = RUNNING

<CloudCraft:> Image Name = c65x8

<CloudCraft:> recipename = WEBSERVER

<CloudCraft:> Login = cloud-user

<CloudCraft:> floating ip = 172.24.4.230

<CloudCraft:> private ip = 191.0.1.117

<CloudCraft:> you can manually connect with :

ssh -i /home/jcloud/keys/webserver1key -l root 172.24.4.230

AND/OR

ssh -i /home/jcloud/keys/webserver1key -l cloud-user 172.24.4.230

<CloudCraft:> depending on the provisioned application's permissions

<CloudCraft:> execute ' echo "" > /home/dan/.ssh/known\_hosts ' if need to override strict permissions

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:>

<CloudCraft:> Update Cached IP:Hostname file

<CloudCraft:> 191.0.1.117 webserver1

<CloudCraft:> Update Group:id

<CloudCraft:> webserver 8e8b49d9-a594-41b1-abd9-8952d0e33de6

<CloudCraft:> >>>> # nodes created 2

**<CloudCraft:> >>>> PROVISION**

<CloudCraft:> >>>> Provision node # 0

<CloudCraft:> >>>> recipe list [infraserver]

<CloudCraft:> >>>> Load a ssh client for uploading

<CloudCraft:> >>>> Acquire a ssh client for uploading to node: infraserver-483

<CloudCraft:> >>>> Updated cacheClients for: infraserver

<CloudCraft:> >>>> ssh client @: 172.24.4.229

<CloudCraft:> >>>> uploading '/home/jcloud/recipes/recipe\_infraserver.tar.gz to 'infraserver-483/tmp'

<CloudCraft:> >>>> uploaded '/home/jcloud/recipes/recipe\_infraserver.tar.gz to 'infraserver-483/tmp'

<CloudCraft:> >>>> uploaded hostsfile.txt ' to 'infraserver-483/tmp'

<CloudCraft:> >>>> uploaded '/home/jcloud/recipes/recipe\_infraserver.tar.gz to 'infraserver-483/tmp'

<CloudCraft:> >>>> unzip '07f7f086-6de9-4d81-975e-a1aceeda1e40/tmp/cookbooks.tar.gz'

RegionOne/07f7f086-6de9-4d81-975e-a1aceeda1e40 tar -zxvf /tmp/cookbooks.tar.gz -C /tmp

<CloudCraft:> process response from unzipping cookbook on ' infraserver-483

<CloudCraft:> >>>> unzipped 'infraserver-483/tmp/cookbooks.tar.gz'

<CloudCraft:>

@@@@@@@@@@@ Install Git, clone the cookbook 'infraserver' and run Chef Solo (several minutes delay possible here)@@@@@@@@@@@

<CloudCraft:> >>>>(Waiting for response) .. runScriptOnGroup:recipe infraserver

<CloudCraft:> >>>>recipelist [infraserver]

<CloudCraft:> process response for cookbooks processing:

<< Provision appears to be successful!! >><CloudCraft:> processed response into provision.txt,

<CloudCraft:> >>>> Provision node # 1

<CloudCraft:> >>>> recipe list [webserver]

<CloudCraft:> >>>> Load a ssh client for uploading

<CloudCraft:> >>>> Acquire a ssh client for uploading to node: webserver-b33

<CloudCraft:> >>>> Updated cacheClients for: webserver

<CloudCraft:> >>>> ssh client @: 172.24.4.230

<CloudCraft:> >>>> uploading '/home/jcloud/recipes/recipe\_webserver.tar.gz to 'webserver-b33/tmp'

<CloudCraft:> >>>> uploaded '/home/jcloud/recipes/recipe\_webserver.tar.gz to 'webserver-b33/tmp'

<CloudCraft:> >>>> uploaded hostsfile.txt ' to 'webserver-b33/tmp'

<CloudCraft:> >>>> uploaded '/home/jcloud/recipes/recipe\_webserver.tar.gz to 'webserver-b33/tmp'

<CloudCraft:> >>>> unzip '8e8b49d9-a594-41b1-abd9-8952d0e33de6/tmp/cookbooks.tar.gz'

RegionOne/8e8b49d9-a594-41b1-abd9-8952d0e33de6 tar -zxvf /tmp/cookbooks.tar.gz -C /tmp

<CloudCraft:> process response from unzipping cookbook on ' webserver-b33

<CloudCraft:> >>>> unzipped 'webserver-b33/tmp/cookbooks.tar.gz'

<CloudCraft:>

@@@@@@@@@@@ Install Git, clone the cookbook 'webserver' and run Chef Solo (several minutes delay possible here)@@@@@@@@@@@

<CloudCraft:> >>>>(Waiting for response) .. runScriptOnGroup:recipe webserver

<CloudCraft:> >>>>recipelist [webserver]

<CloudCraft:> process response for cookbooks processing:

<< Provision appears to be successful!! >><CloudCraft:> processed response into provision.txt,

**<CloudCraft:> >>>> POSTPROCESSING**

<CloudCraft:> >>>> ReConnect each ssh client for uploading to node:

<CloudCraft:> >>>> ssh client @ : 172.24.4.229 infraserver-483

<CloudCraft:> >>>> uploaded final hostsfile.txt ' to '172.24.4.229/etc/hosts'

<CloudCraft:> >>>> Found post provision command 'service nfs restart

<CloudCraft:> process response from send provision command service nfs restart to infraserver-483

<< status from command = 0

<CloudCraft:> >>>> ssh client @ : 172.24.4.230 webserver-b33

<CloudCraft:> >>>> uploaded final hostsfile.txt ' to '172.24.4.230/etc/hosts'

<CloudCraft:> >>>> Found post provision command 'mount infraserver1:/home/webfiles/downloads /var/www/html/support/downloads

<CloudCraft:> process response from send provision command mount infraserver1:/home/webfiles/downloads /var/www/html/support/downloads to webserver-b33

<< status from command = 0

<CloudCraft:> close():

<CloudCraft:>

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> Instance Number 0

<CloudCraft:> rID = 07f7f086-6de9-4d81-975e-a1aceeda1e40

<CloudCraft:> nodename = infraserver-483

<CloudCraft:> group = infraserver

<CloudCraft:> port = 22

<CloudCraft:> node status = RUNNING

<CloudCraft:> Image Name = c65x8

<CloudCraft:> recipename = INFRASERVER

<CloudCraft:> Login = cloud-user

<CloudCraft:> floating ip = 172.24.4.229

<CloudCraft:> private ip = 191.0.1.116

<CloudCraft:> you can manually connect with :

ssh -i /home/jcloud/keys/infraserver1key -l root 172.24.4.229

AND/OR

ssh -i /home/jcloud/keys/infraserver1key -l cloud-user 172.24.4.229

<CloudCraft:> depending on the provisioned application's permissions

<CloudCraft:> execute ' echo "" > /home/dan/.ssh/known\_hosts ' if need to override strict permissions

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:>

<CloudCraft:>

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:> Instance Number 1

<CloudCraft:> rID = 8e8b49d9-a594-41b1-abd9-8952d0e33de6

<CloudCraft:> nodename = webserver-b33

<CloudCraft:> group = webserver

<CloudCraft:> port = 22

<CloudCraft:> node status = RUNNING

<CloudCraft:> Image Name = c65x8

<CloudCraft:> recipename = WEBSERVER

<CloudCraft:> Login = cloud-user

<CloudCraft:> floating ip = 172.24.4.230

<CloudCraft:> private ip = 191.0.1.117

<CloudCraft:> you can manually connect with :

ssh -i /home/jcloud/keys/webserver1key -l root 172.24.4.230

AND/OR

ssh -i /home/jcloud/keys/webserver1key -l cloud-user 172.24.4.230

<CloudCraft:> depending on the provisioned application's permissions

<CloudCraft:> execute ' echo "" > /home/dan/.ssh/known\_hosts ' if need to override strict permissions

<CloudCraft:> @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

<CloudCraft:>

<CloudCraft:>You may want to review provision.txt and cloudcraft.log

**Appendix B.**

**Specvirt Considerations**

**Operating System:**

**Centos 6.5 & (presumably) RHEL (NOT Centos 7x, Ubuntu, Fedora, Debian, etc. ).**

**Networking issues:**

**Problem – need private ips for inter-vm network communication to be distributed across ALL tiles .. Openstack has a way to assign static ips in a custom port via its Neutron interface. ~~Cloudcraft utilizes the neutron interface but its compute node api does not appear to allow specifying the port id on a VM create. Thus far queries on the Jclouds forum has not turned up anything useful~~. Updated ..response from Apache pointed to the correct parameter .. now using Neutron successfully..**

**Current Cloudcraft workaround if Neutron NOT available (e.g. on AWS) –**

**1)For the VMs NOT using user-assigned ips, after each vm created issue a ‘ifconfig’ on each vm and parse the assigned private ip out and store it in a map and update an ‘/etc/hosts’ from it. This is necessary because the jclouds api won’t return the ip as its docs indicate it should .**

**2)After ALL tiles have been instantiated AND provisioned, run back through them all and copy the Cloudcraft-generated specvirt-wide** /etc/hosts **to each.**

**3)Implement a post-provision commands mechanism to perform linux commands for specvirt that require the full hosts file on each vm. For example, for infraserver issue a ‘service nfs restart’ to make its provisioned ‘exports’ file operational with regards to the valid webserver private ip that now exists in /etc/hosts. On webserver issue a mount infraserver1:xxx to hook up some webfiles to its apache server repository against the valid infraserver ip that now exists in its /etc/hosts. Static ips were previously handled easily in the Vagrant/Virtualbox development environment and should remain in the provision recipes and would be if static Openstack static ips had some readily-available comparable solution. This is terrible and needs to be resolved.**

**Permissions issues:**

**SPECVIRT hardcodes ssh keys in /root/.ssh/authorized\_keys, distributed across all of its tiles in Chef recipes /files/root uploads so ssh can occur between the VMs, primarily from specdriver and specclient. However, having those keys preloaded complicates permissions trying to post-access the VMs from the controller (rogue) to use the above post-provision commanding. These hardcoded keys have been renamed in the recipes to /root/.ssh/authorized\_keysBK and a post-provision command added to each server into the ‘specvirt’ stack file to rename it back to /root/.ssh/authorized\_keys** *after* **each particular client has been reestablished. This can also go away when Openstack has a usable Static IP capability.**

**Potential Alterations. The specclient/driver keys have passphrases. These may need to be overridden with starting up a specclient and performing a ‘ssh-keygen’ under its root and distributing the ‘id\_rsa.pub’ into each client’s recipe authorized\_keysBK and letting specclient connect with its new ‘id\_rsa.pub’..tbd when specclient is up to speed.**

**Volume of benchmark data issues:**

**The volume of data required for proper specvirt tests is *huge* and will get much worse with SPECVIRT\_2013. It is a hindrance to facilitate development of the product under provisioning. Therefore its datasets were drastically reduced for this purpose. When full sets are again utilized it is expected that new problems will arise. For example perhaps time outs will occur uploading or unzipping or processing the large data files. Full testing under actual loads is tbd.**

**Openstack problems**

Openstack quota recovery .. at times the Openstack mysql db can get corrupted affecting operations that depend on quotas (maximum instances allowed, etc.)

Solution .. manually reset db quotas

[dan@rogue ~]$ mysql -u root --password=root

mysql> use nova

mysql> select \* from quota\_usages;

note – get project id from admin:identity panel page

update quota\_usages set in\_use='0' where project\_id='b562f2b8221b49dbaaf6d2f2aa9565d4';

\q

Solution .. manually reset cinder

mysql> use cinder

Database changed

mysql> update volumes set deleted=1,status='deleted',deleted\_at=now(),updated\_at=now() where deleted=0;

mysql -u root --password=11e6bfa3735649b0 < reset\_quotas

mysql> desc instances;

mysql> select vm\_state, task\_state, count(\*) from instances where   
vm\_state in ('building', 'error') group by vm\_state, task\_state order by   
count(\*) desc;

\*glance sql

sql\_connection=mysql://glance:6fc8f0368f48467d@141.112.17.7/glance

nova reset-state ae7f53d4-68a2-43d3-a69f-02c9a43abd73

..delete zombie instances ..

mysql> update instances set deleted\_at = updated\_at, deleted = id, power\_state = 0, vm\_state = "deleted", terminated\_at = updated\_at, root\_device\_name = NULL, task\_state = NULL where deleted = 0;

mysql> update instance\_info\_caches set deleted\_at = updated\_at, deleted = id where deleted = 0;

mysql> update fixed\_ips set instance\_id = NULL, allocated = 0, virtual\_interface\_id = NULL where deleted = 0;

Useful commands

***tar cvfz recipes/recipe\_demoserver.tar.gz cookbooks/demoserver***

* ***Reduce data files***
* ***/home/specvirt\_data ..tar cfz 500irdbfiles\_small.tgz dbstore***

javac -classpath "/home/jcloud//target/dependency/\*" \*.java

nova show c3b8a7cc-9dc4-4050-af38-18f02f0953bf

sudo curl -L http://www.getchef.com/chef/install.sh | bash

uname –mrs

/etc/apt/sources.list (check <http://nova.clouds.archive.ubuntu.com>, alter in cloud-init template?)

Dl Ubuntu saucy to 141.112.52.224

Copy to htdoc

Create image from horizon

Load

java -classpath "/home/jcloud//target/dependency/\*:." CloudCraft -i 2be5cf4e-3e19-404c-bec1-e697abd1d15d

add Nameserver 8.8.8.8

apt-get update

curl -L http://www.getchef.com/chef/install.sh | bash

enable root login in vi /etc/cloud/cloud.cfg

/opt/chef/bin/chef-solo -c /etc/chef/solo.rb --override-runlist "recipe[elk]"

[root@demoserver1 ~]# cat /var/chef/solo.rb 🡨 affected by cloudcraft options

[avoid policy errors vvvvvvvvvvvvvvvv]

sudo su –

source keystonerc\_admin

keystone role-create --name danadmin (create role)

keystone user-role-add --user=demo --tenant=demo --role=danadmin

\*find

grep -R "syslog" syslog-ng

\*delete all but

ls|grep -v "test1"|xargs rm -r

(/etc/nova/policy.json)

"compute\_extension:floating\_ip\_dns": "rule:admin\_api or role:danadmin",

Allows you to

nova --os-username demo --os-tenant-name demo --os-password demo --os-auth-url http://141.112.17.7:5000/v2.0/ floating-ip-pool-list

nova --os-username demo --os-tenant-name demo --os-password demo --os-auth-url http://141.112.17.7:5000/v2.0/ floating-ip-bulk-create 192.168.1.56/29

[avoid policy errors ^^^^^^^^^^^^^^^^^^^]

Port forwarding on rogue

#dpr next 3 lines so can get to internet from VM

iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

iptables -A FORWARD -i eth0 -o eth1 -m state --state RELATED,ESTABLISHED -j ACCEPT

iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT

#dpr next 2 lines so can get to VM port with 172.24.4.229:81

iptables -A PREROUTING -t nat -i eth0 -p tcp --dport 81 -j DNAT --to 172.24.4.229:81

iptables -A INPUT -p tcp -m state --state NEW --dport 81 -i eth0 -j ACCEPT

sudo apt-get install telnetd (ubuuntu)

netstat -ntlp | grep LISTEN

netstat -ano|grep 514

\*compile

javac \*.java

\*run driver

cd /opt/SPECvirt;java -jar specvirt.jar -l &

cd /opt/SPECvirt; cat primectrl.out

cd /opt/SPECvirt/results/xxxx

scp specvirt-20150125-113422-perf.html [dan@141.112.17.7:/home/jcloud](mailto:dan@141.112.17.7:/home/jcloud)

scp -i /home/dan/keys/base-centos-d38key x.tar.gz root@172.24.4.230:/root

\*specclient

Locate .log

Cat each log for status

\*knock other users off

ps faux |grep sshd

kill pid

\*check disk space file size

df –h

du -hs /tmp /var/tmp

du -a /var/lib/nova/instances | sort -n -r | head -n 10

du -shc . | sort -n -r | head -n 10

\*rabbitmq

sudo rabbitmqctl set\_permissions -p / guest ".\*" ".\*" ".\*"

\*move images to /home/specvirt\_data

In ‘/etc/glance/glance-api.conf’

filesystem\_store\_datadir=/home/specvirt\_data/glance/images/

image\_cache\_dir=/home/specvirt\_data/glance/image-cache/

In ‘/etc/nova/nova.conf’

instances\_path = /home/specvirt\_data/instances

\*branding

/usr/share/openstack-dashboard/static/dashboard/img

#dpr stop asking that stupid question

In ‘/etc/ssh/ssh\_config’

StrictHostKeyChecking no

netstat -ntlp | grep LISTEN

netstat –ano|grep 514

\*specvirt VM stsrtups on each VM

cd /home/spec/SPECjAppServer2004/classes;

java -classpath .:../jars/launcher.jar org.spec.jappserver.launcher.jappclient -p 2000

cd /opt/SPECweb2005; java -jar specwebclient.jar -p 2200

infraserver:test\_besim\_support scripts (included in the "besim" subdirectory of the installation)

cd /opt/SPECimap; java -jar specimapclient.jar -p 2400

cd /opt/SPECpoll; java -jar specpollclient.jar -p 2600

\*recovery

Terminate manually

Clean /glance and /nova of current images

mysql -u root --password=11e6bfa3735649b0 < reset\_quotas

reboot

\*image create

glance image-create --name WS2012 --disk-format qcow2 --container-format bare --is-public true --file windows\_server\_2012\_r2\_standard\_eval\_kvm\_20140607.qcow2

java CloudCraft -i centos -p infraserver -z -pip 191.0.1.112

du -a /var/lib/nova/instances | sort -n -r | head -n 10

yum whatprovides libXm.so.3

\*infraserver

export LD\_LIBRARY\_PATH=/opt/SPECweb2005/Besim/fcgi-2.4.0/libfcgi/.libs:${LD\_LIBRARY\_PATH}

chmod 777 /tmp

rdp in to the public infra ip

took this url from the test\_besim\_support.sh output

curl -v http://besim:81/fcgi-bin/besim\_fcgi.fcgi?3&0&1079975569&500 HTTP/1.1

\* Connected to besim (191.0.1.112) port 81 (#0

GET /fcgi-bin/besim\_fcgi.fcgi?3&0&1079975569&500 HTTP/1.1

Put in browser

[http**://**172.24.4.227:81/fcgi-bin/besim\_fcgi.fcgi?3&0&1079975569&1 HTTP/1.1](http://172.24.4.227:81/fcgi-bin/besim_fcgi.fcgi?3&0&1079975569&1%20HTTP/1.1)

/opt/SPECweb2005/Besim/test\_besim\_support.sh http://besim:81/fcgi-bin/besim\_fcgi.fcgi

vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv

[dan@rogue ~]$ mysql -u root --password=11e6bfa3735649b0

mysql> drop database nova;

(use pw packstackanswers:CONFIG\_NOVA\_DB\_PW=c0f588a6ebff43f6)

mysql> grant all privileges on nova.\* to 'nova'@'%' identified by 'c0f588a6ebff43f6';

mysql> grant all privileges on nova.\* to 'nova'@'localhost' identified by **'c0f588a6ebff43f6';**

mysql> flush privileges;

mysql> exit

[dan@rogue ~]$ sudo nova-manage db sync

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Appendix A0 \*new base image set up

VvvvvvvvvvvvvvvvOperational Imagevvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv

Build image from ‘http://141.112.52.224/centos-6.5-20140117.0.x86\_64.qcow2’while setting the desired operational disk size.

Instantiate ‘java CloudCraft -i centos\_65\_40 -mindisk 40’(TODO take size from image suffix)

#upload partition expander

‘scp -i /home/dan/keys/user-image-482key -o UserKnownHostsFile=/dev/null /home/dan/Downloads/cloud-utils-0.27.tar.gz [root@172.24.4.231:/root](mailto:root@172.24.4.231:/root) ’

[root@user-image1 ~]# parted /dev/vda --script "print free"

Model: Virtio Block Device (virtblk)

Disk /dev/vda: 85.9GB

Sector size (logical/physical): 512B/512B

Partition Table: msdos

Number Start End Size Type File system Flags

32.3kB 1049kB 1016kB Free Space

1 1049kB 16.1GB 16.1GB primary ext4 boot

16.1GB 85.9GB 69.8GB Free Space [root@user-image1 ~]# cd /home/centos/

[root@user-image1 centos]# tar -xvf cloud-utils-0.27.tar.gz

cloud-utils-0.27/bin/growpart

[root@user-image1 centos]# /home/centos/cloud-utils-0.27/bin/growpart /dev/vda 1

partx: unrecognized option '--help'

unknown option

CHANGED: partition=1 start=2048 old: size=31457280 end=31459328 new: size=167764747,end=167766795

[root@user-image1 centos]# parted /dev/vda --script "print free"

Model: Virtio Block Device (virtblk)

Disk /dev/vda: 85.9GB

Sector size (logical/physical): 512B/512B

Partition Table: msdos

Number Start End Size Type File system Flags

32.3kB 1049kB 1016kB Free Space

1 1049kB 85.9GB 85.9GB primary ext4 boot

85.9GB 85.9GB 2747kB Free Space

\*Snapshot to centos80gp

\*Start centos80gp

java CloudCraft -i centos80gp -da -mindisk 80

[root@ centos80gp ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/vda1 79G 1.4G 74G 2% / 🡨plenty of space

tmpfs 3.9G 0 3.9G 0% /dev/shm

\*upload zipped datastore from rogue

<infraserver>

scp -i /home/dan/keys/vloader-14ekey -o UserKnownHostsFile=/dev/null /home/specvirt/from\_tac\_server/cookbooks/infraserver/files/default/home/webfiles/downloads.tar.gz [root@172.24.4.238:/home/](mailto:root@172.24.4.238:/home/)

mke2fs -j /dev/vdb

tar -xf /home/downloads.tar.gz -C /mnt

<dbserver>

\*500irdbfiles.tgz

scp -i /home/dan/keys/dbserver-5a5key /home/specvirt\_data/500irdbfiles.tgz [root@172.24.4.228:/home](mailto:root@172.24.4.228:/home)

mke2fs -j /dev/vdb

tar -xf /home/500irdbfiles.tgz -C /mnt

<mailserver>

rogue:/home/specvirt\_data$ scp -i /home/dan/keys/mailserver-c92key -o UserKnownHostsFile=/dev/null 500users\_mail.tar.gz [root@172.24.4.228:/home](mailto:root@172.24.4.228:/home)

[root@mailserver1 ~]# mke2fs -j /dev/vdb

[root@mailserver1 ~]# mount -t ext4 /dev/vdb /mnt

[root@mailserver1 ~]# tar -xf /home/500users\_mail.tar.gz -C /mnt

\*attach volume from horizon here

Goto page 94

/////

[dan@rogue jcloud]$ ssh -i /home/dan/keys/user-image-cfakey -o UserKnownHostsFile=/dev/null -l root 172.24.4.237 Warning: Permanently added '172.24.4.237' (RSA) to the list of known hosts.

Last login: Fri Mar 20 09:51:50 2015 from 172.24.4.225

[root@user-image1 ~]# mount -t ext4 /dev/vdb /mnt

[root@user-image1 ~]# ls /home

500irdbfiles.tgz centos cloud-user

[root@user-image1 ~]# tar -xf /home/500irdbfiles.tgz -C /mnt

[root@user-image1 ~]# cd /mnt

[root@user-image1 mnt]# mv dbstore/data .

[root@user-image1 mnt]# mv dbstore/log .

[root@user-image1 mnt]# rm dbstore/ -rf

[root@user-image1 mnt]#

/usr/pgsql-9.1/bin/postgres -D /var/lib/pgsql/data

log in as ‘cloud-user’

‘sudo visudo’ and set cloud-user to full perms.

#xtract partition expander

‘cd /home/cloud-user; tar -xvf cloud-utils-0.27.tar.gz ’

#invoke partition expander

‘sudo cloud-utils-0.27/bin/growpart /dev/vda 1 ’

#let us log in as root in the future

‘sudo vi /etc/cloud/cloud.cfg ’ and set ‘disable\_root: 0 ’

‘sudo passwd root’ ‘root’/’root’ #make root password easy

‘sudo passwd cloud-user’ ‘cloud-user’/‘cloud-user’

‘sudo vi /etc/resolv.conf ’ and add ‘nameserver 8.8.8.8 ’#enable internet

or ‘echo nameserver 8.8.8.8 >> /etc/resolve.conf ‘?

‘NOTE: Ubuntu must set in ‘/etc/resolvconf/resolvconf.d/base

‘sudo vi /etc/sysconfig/network-scripts/ifcfg-eth0 ’; set ‘PEERDNS=no ’

‘sudo yum –y update ’ #bring os up to date

#install chef

‘sudo su – ‘ ; ‘curl -L http://www.opscode.com/chef/install.sh | bash

’

OR ‘curl -L http://www.getchef.com/chef/install.sh | bash ’ ??

\* Install git & try removing from provision

yum install git-1.7.1-3.el6\_4.1.x86\_64

‘yum -y install mlocate;yum -y install java-1.7.0-openjdk.x86\_64;yum -y install httpd

Disable selinux on the base OS to prevent provision ‘restorecon’ permission

‘vi /etc/selinux/config ’ ; set ‘SELINUX=disabled’ TBD? NO ..looks like the

Cookbook changes the config ..

#disable sendmail

‘chkconfig --levels 345 sendmail off ‘

#install-y nslookup

‘yum install bind-utils ‘

\*from rogue .. install growpart zip

scp -i /home/dan/keys/user-image-482key -o UserKnownHostsFile=/dev/null /home/dan/Downloads/cloud-utils-0.27.tar.gz [root@172.24.4.231:/root](mailto:root@172.24.4.231:/root)

////////////////////////////////////////////////////////////////////////////

SNAPSHOT IT

See <http://www.gossamer-threads.com/lists/openstack/dev/15396> for stalls

cleaned ‘/tmp’ of a lot of stuff

‘sudo rm /tmp/keystone\* -rf’ (be very careful to do expireds)

‘rm /tmp/gnome-system-monitor.dan.2338472264’

‘rm /tmp/virtual\* -rf’

////////////////////////////////////////////////////////////////////////////

\*Secgroup rules

Make sure group has ingress/egress for all tcp, icmp, 22 specifc, http

Make sure during init you see a key generation to connect over.

nova secgroup-list

nova secgroup-list-rules global\_http

\*cannot ping fip

Try releasing all fips?

Check dnsmasq with

ps aux | grep dns to find dnsmaq

Is this correct for sources?

PING 172.24.4.228 (172.24.4.228) 56(84) bytes of data.

From 4.28.81.117 icmp\_seq=1 Destination Net Unreachable #what the fuk is this ip?

From 4.28.81.117 icmp\_seq=2 Destination Net Unreachable

From 4.28.81.117 icmp\_seq=3 Destination Net Unreachable

If you have run these commands and still cannot ping or SSH your instances, check the number of running dnsmasq processes, there should be two. If not, kill the processes and restart the service with these commands: command:

//////////////////sudo service dnsmasq status////////////////

netstat -anlp | grep -w 53

# killall dnsmasq

#service dnsmasq start

# /home/jcloud/scripts/iptables.sh

/////////////////////////////////////////////////////////////////////

Derived an execution from ‘/var/log/neutron/dhcp-agent.log ‘ log entry

[root@rogue ~]# 'sudo', 'neutron-rootwrap', '/etc/neutron/rootwrap.conf', 'ip', 'netns', 'exec', 'qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaaip -o link show tap3223e7e6-7f

>

neutron-rootwrap /etc/neutron/rootwrap.conf ip netns exec qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa ip -o link show tap3223e7e6-7f

27: tap3223e7e6-7f: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN \ link/ether fa:16:3e:53:9e:4b brd ff:ff:ff:ff:ff:ff

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

qdhcp-0d67c3ae-6485-4f1a-8250-cbfd02feb862

qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa

qrouter-fe90dcaf-a572-4518-8609-669480a98955

[root@rogue ~]# ip netns list

qdhcp-0d67c3ae-6485-4f1a-8250-cbfd02feb862

qdhcp-b549285a-40c1-4bae-855d-e6f78977fc13

qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa

qrouter-fe90dcaf-a572-4518-8609-669480a98955

[root@rogue ~]# ip netns exec qrouter-de0b9dbe-6b65-45ee-9ff2-c752c7937a9e ping 10.10.0.7

Cannot open network namespace: No such file or directory

&&&&&&&&&&&&&&https://openstack.redhat.com/Networking&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&

&&https://www.mirantis.com/blog/openstack-networking-single-host-flatdhcpmanager/&&

!!!!!!!!!!!!!!!!!!!!DO NOT MESS WITH ETH0 using ovs-ctl commands..!!!!!!!!!!!!!!

If rebuild br-ex remember to use IPADDR=172.24.4.225 (or is it 224?)

Did not have dns1 or dns2 in there or gateway & shit don’t remember if domain

Or not ..

DEVICE=br-ex

DEVICETYPE=ovs

TYPE=OVSBridge

BOOTPROTO=static

#dpr

IPADDR=172.24.4.225 # Old eth0 IP since we want the network restart to not kill the connection, otherwise pick something outside your dhcp range

NETMASK=255.255.255.240 # your netmask

#GATEWAY=192.168.122.1 # your gateway

#DNS1=141.112.17.254 # your nameserver

ONBOOT=yes

[root@rogue ~]# ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 ping 10.10.0.7

PING 10.10.0.7 (10.10.0.7) 56(84) bytes of data.

^C

--- 10.10.0.7 ping statistics ---

4 packets transmitted, 0 received, 100% packet loss, time 3258ms

[root@rogue ~]# ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 ping 172.24.4.234

PING 172.24.4.234 (172.24.4.234) 56(84) bytes of data.

64 bytes from 172.24.4.234: icmp\_seq=1 ttl=64 time=2.68 ms

--- 172.24.4.234 ping statistics ---

9 packets transmitted, 9 received, 0% packet loss, time 8002ms

rtt min/avg/max/mdev = 0.127/0.507/2.682/0.778 ms

[root@rogue ~]# ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 route -n

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

172.24.4.224 0.0.0.0 255.255.255.240 U 0 0 0 qg-9a4b79f0-42

191.0.1.0 0.0.0.0 255.255.255.0 U 0 0 0 qr-46b728b1-69

10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 qr-c9f48a22-dd

0.0.0.0 172.24.4.225 0.0.0.0 UG 0 0 0 qg-9a4b79f0-42

&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&

[root@rogue ~]#

[dan@rogue jcloud]$ sudo ip netns exec qdhcp-0d67c3ae-6485-4f1a-8250-cbfd02feb862 route -n

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

[dan@rogue jcloud]$ sudo ip netns exec qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa route -n

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 tap3223e7e6-7f

0.0.0.0 10.0.0.1 0.0.0.0 UG 0 0 0 tap3223e7e6-7f

[dan@rogue jcloud]$ sudo ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 route -n Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

172.24.4.224 0.0.0.0 255.255.255.240 U 0 0 0 qg-9a4b79f0-42

10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 qr-c9f48a22-dd

191.0.1.0 0.0.0.0 255.255.255.0 U 0 0 0 qr-5c45325e-c8

0.0.0.0 172.24.4.225 0.0.0.0 UG 0 0 0 qg-9a4b79f0-42

[dan@rogue jcloud]$ ip netns list

qdhcp-0d67c3ae-6485-4f1a-8250-cbfd02feb862

qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa

qrouter-fe90dcaf-a572-4518-8609-669480a98955

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

??check this

tail -n 100 /var/log/libvirt/libvirtd.log

KEYSTONE authentication error?

Discovered couldnt connect to mysql..

[dan@rogue ~(keystone\_admin)]$ mysql -u root --password=11e6bfa3735649b0

ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/lib/mysql/mysql.sock' (2)

[dan@rogue ~(keystone\_admin)]$ sudo service mysqld start

MySQL Daemon failed to start.

Starting mysqld: [FAILED]

Chmod 777 perms to /tmp and started .. got login screen but then cudnt actually

Login.

\*cinder

NOTE got cinder authentication errs until changed keystonerc to match

“admin” & “demo” pw

cinder create --display-name myvolume 1 --volume\_type lvm

cinder type-list

nova volume-attach a1f773f0-f2af-4916-8dc0-45efcab0cd92 699b0648-66d4-4fbf-b0c1-dba16da6be48 auto

nova volume-detach a1f773f0-f2af-4916-8dc0-45efcab0cd92 699b0648-66d4-4fbf-b0c1-dba16da6be48

\*ipv6

Used the following sysctls to disable IPv6 and then placed in /etc/sysctl.conf  
  
sysctl -w net.ipv6.conf.all.disable\_ipv6=1  
sysctl -w net.ipv6.conf.default.disable\_ipv6=1

Cirros:udhcpc –T 1 –A 1

Rogue:tcpdump -e -n -i br-ex

Rogue:sudo ovs-vsctl show

\*yum –y update problem

Rogue:ping mirror.centos.org to get ip xx.xx.xx.xx

On VM: set xx.xx.xx.xx mirror.centos.org ‘ into /etc/hosts

On VM: comment out mirrorlist and uncomment base

Rogue:tcpdump -e -n -i br-ex

VM:yum –y update

[dan@rogue ~]$ ip a | grep state

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 16436 qdisc noqueue state UNKNOWN

2: eth0: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc mq state UP qlen 1000

3: eth1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN qlen 1000

4: ovs-system: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN

5: br-int: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

8: virbr0: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

9: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN qlen 500

11: br-tun: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

57: qbrf7159005-7e: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

58: qvof7159005-7e: <BROADCAST,MULTICAST,PROMISC,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

59: qvbf7159005-7e: <BROADCAST,MULTICAST,PROMISC,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

60: tapf7159005-7e: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UNKNOWN qlen 500

61: br-ex: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

\*Neutron tutorial

https://video.search.yahoo.com/video/play;\_ylt=AwrT6VzosfBUo4IAO\_0nnIlQ;\_ylu=X3oDMTB0aWRtNmFyBHNlYwNzYwRjb2xvA2dxMQR2dGlkA1lIUzAwMV8x?p=openstack+neutron+tutorial&tnr=21&vid=DCDF7C01EA91E123E798DCDF7C01EA91E123E798&l=2426&turl=http%3A%2F%2Fts3.mm.bing.net%2Fth%3Fid%3DUN.608015783021707658%26pid%3D15.1&sigi=11r3b2l26&rurl=http%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DafImoFeuDnY&sigr=11afv713n&tt=b&tit=OpenStack+Networking+with+Neutron+on+RDO&sigt=1183rgmjv&back=https%3A%2F%2Fsearch.yahoo.com%2Fyhs%2Fsearch%3Fp%3Dopenstack%2Bneutron%2Btutorial%26ei%3DUTF-8%26hsimp%3Dyhs-001%26hspart%3Dmozilla&sigb=136127b76&hspart=mozilla&hsimp=yhs-001

[root@rogue ~]# tcpdump -n -i br-int (ping failed)

tcpdump: WARNING: br-int: no IPv4 address assigned

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on br-int, link-type EN10MB (Ethernet), capture size 65535 bytes

14:36:30.972512 ARP, Request who-has 191.0.1.100 tell 191.0.1.106, length 28

14:36:31.972293 ARP, Request who-has 191.0.1.100 tell 191.0.1.106, length 28

[root@rogue ~]# tcpdump -n -i br-int(ping succeeded)

tcpdump: WARNING: br-int: no IPv4 address assigned

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on br-int, link-type EN10MB (Ethernet), capture size 65535 bytes

[nothing came back on success???]

[root@rogue ~]# tcpdump -n -i br-ex (failed to ping)

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on br-ex, link-type EN10MB (Ethernet), capture size 65535 bytes

14:37:24.433345 ARP, Request who-has 172.24.4.235 tell 172.24.4.225, length28

14:37:25.433274 ARP, Request who-has 172.24.4.235 tell 172.24.4.225, length28

[root@rogue ~]# tcpdump -n -i br-ex(succeeded to ping)

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on br-ex, link-type EN10MB (Ethernet), capture size 65535 bytes

15:01:05.644806 IP 172.24.4.225 > 172.24.4.238: ICMP echo request, id 2333, seq 1, length 64

15:01:05.645623 IP 172.24.4.238 > 172.24.4.225: ICMP echo reply, id 2333, seq 1, length 64

15:01:06.645879 IP 172.24.4.225 > 172.24.4.238: ICMP echo request, id 2333, seq 2, length 64

15:01:06.646178 IP 172.24.4.238 > 172.24.4.225: ICMP echo reply, id 2333, seq 2, length 64

# List namespaces

[root@rogue ~]# ip netns (dns failure)

qdhcp-b549285a-40c1-4bae-855d-e6f78977fc13

qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa

qrouter-fe90dcaf-a572-4518-8609-669480a98955

# Show all interfaces inside the namespace

[root@rogue ~]# ip netns exec qdhcp-b549285a-40c1-4bae-855d-e6f78977fc13 ip a

19: tap74fc7bc5-f8: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

link/ether fa:16:3e:d8:c9:5b brd ff:ff:ff:ff:ff:ff

inet 191.0.1.101/24 brd 191.0.1.255 scope global tap74fc7bc5-f8

inet6 fe80::f816:3eff:fed8:c95b/64 scope link

valid\_lft forever preferred\_lft forever

21: lo: <LOOPBACK,UP,LOWER\_UP> mtu 16436 qdisc noqueue state UNKNOWN

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

[root@rogue ~]#

[root@rogue ~]#

[root@rogue ~]# ip netns exec qdhcp-8bc87fe9-c0bb-4c64-bb49-73c76764dfaa ip a

20: tap3223e7e6-7f: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

link/ether fa:16:3e:53:9e:4b brd ff:ff:ff:ff:ff:ff

inet 10.0.0.202/24 brd 10.0.0.255 scope global tap3223e7e6-7f

inet6 fe80::f816:3eff:fe53:9e4b/64 scope link

valid\_lft forever preferred\_lft forever

22: lo: <LOOPBACK,UP,LOWER\_UP> mtu 16436 qdisc noqueue state UNKNOWN

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

[root@rogue ~]#

#Check router table

[root@rogue ~]# ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 ip r

172.24.4.224/28 dev qg-9a4b79f0-42 proto kernel scope link src 172.24.4.226

10.0.0.0/24 dev qr-c9f48a22-dd proto kernel scope link src 10.0.0.1

191.0.1.0/24 dev qr-46b728b1-69 proto kernel scope link src 191.0.1.1

default via 172.24.4.225 dev qg-9a4b79f0-42

[root@rogue ~]#

# IP config inside the router namesapce

[root@rogue ~]# ip netns exec qrouter-fe90dcaf-a572-4518-8609-669480a98955 ifconfig

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:16436 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

qg-9a4b79f0-42 Link encap:Ethernet HWaddr FA:16:3E:F9:9E:09

inet addr:172.24.4.226 Bcast:172.24.4.239 Mask:255.255.255.240

inet6 addr: fe80::f816:3eff:fef9:9e09/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:250 errors:0 dropped:0 overruns:0 frame:0

TX packets:250 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:27414 (26.7 KiB) TX bytes:27006 (26.3 KiB)

qr-c9f48a22-dd Link encap:Ethernet HWaddr FA:16:3E:B4:13:36

inet addr:10.0.0.1 Bcast:10.0.0.255 Mask:255.255.255.0

inet6 addr: fe80::f816:3eff:feb4:1336/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:5 errors:0 dropped:0 overruns:0 frame:0

TX packets:10 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:330 (330.0 b) TX bytes:684 (684.0 b)

qr-46b728b1-69 Link encap:Ethernet HWaddr FA:16:3E:58:44:2B

inet addr:191.0.1.1 Bcast:191.0.1.255 Mask:255.255.255.0

inet6 addr: fe80::f816:3eff:fe58:442b/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:455 errors:0 dropped:0 overruns:0 frame:0

TX packets:392 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:46942 (45.8 KiB) TX bytes:44980 (43.9 KiB)

# IP config inside the dhcp namesapce

[root@rogue ~]# ip netns exec qdhcp-b549285a-40c1-4bae-855d-e6f78977fc13 ifconfig

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:16436 Metric:1

RX packets:1 errors:0 dropped:0 overruns:0 frame:0

TX packets:1 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:576 (576.0 b) TX bytes:576 (576.0 b)

tap74fc7bc5-f8 Link encap:Ethernet HWaddr FA:16:3E:D8:C9:5B

inet addr:191.0.1.101 Bcast:191.0.1.255 Mask:255.255.255.0

inet6 addr: fe80::f816:3eff:fed8:c95b/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:29 errors:0 dropped:0 overruns:0 frame:0

TX packets:10 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:2672 (2.6 KiB) TX bytes:1336 (1.3 KiB)

[root@rogue ~]#

---------------------

[root@rogue ~]# tcpdump -n -i eth1

tcpdump: WARNING: eth1: no IPv4 address assigned

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on eth1, link-type EN10MB (Ethernet), capture size 65535 bytes

10:21:42.819741 IP bull-138-242.us.bull.com.55860 > localhost.ssh: Flags [P.], seq 52:104, ack 69, win 65, length 52

10:21:42.821932 IP localhost.ssh > bull-138-242.us.bull.com.55860: Flags [P.], seq 69:121, ack 104, win 155, length 52

10:21:42.822029 IP localhost.47649 > heineken.usrnd.lan.domain: 21697+ A? www.google.com. (32)

10:21:42.822303 IP heineken.usrnd.lan.domain > localhost.47649: 21697 5/0/0 A 74.125.224.81, A 74.125.224.84, A 74.125.224.83, A 74.125.224.82, A 74.125.224.80 (112)

10:21:42.822469 IP localhost > lax17s02-in-f17.1e100.net: ICMP echo request, id 30210, seq 1, length 64

10:21:42.823775 IP localhost.ssh > bull-138-242.us.bull.com.55860: Flags [P.], seq 121:221, ack 104, win 155, length 100

10:21:42.836978 IP lax17s02-in-f17.1e100.net > localhost: ICMP echo reply, id 30210, seq 1, length 64

10:21:42.837083 IP localhost.56466 > heineken.usrnd.lan.domain: 21089+ PTR? 81.224.125.74.in-addr.arpa. (44)

\*dns look for dnsmasq port 53

netstat -anlp | grep -w 53

tcp 0 0 192.168.122.1:53 0.0.0.0:\* LISTEN -

udp 0 0 192.168.122.1:53 0.0.0.0:\*

note that during a vm boot the Ethernet ip can be obtained ..

Bringing up interface eth0:

Determining IP information for eth0... done.

[60G[[0;32m OK [0;39m]

Starting auditd: [60G[[0;32m OK [0;39m]

Starting system logger: [60G[[0;32m OK [0;39m]

Starting rpcbind: [60G[[0;32m OK [0;39m]

Starting NFS statd: [60G[[0;32m OK [0;39m]

Mounting filesystems: [60G[[0;32m OK [0;39m]

Starting acpi daemon: [60G[[0;32m OK [0;39m]

Retrigger failed udev events[60G[[0;32m OK [0;39m]

Starting cloud-init: Cloud-init v. 0.7.5 running 'init-local' at Mon, 02 Mar 2015 15:05:47 +0000. Up 14.74 seconds.

Starting cloud-init: Cloud-init v. 0.7.5 running 'init' at Mon, 02 Mar 2015 15:05:48 +0000. Up 15.73 seconds.

ci-info: ++++++++++++++++++++++++++Net device info++++++++++++++++++++++++++

ci-info: +--------+------+-------------+---------------+-------------------+

ci-info: | Device | Up | Address | Mask | Hw-Address |

ci-info: +--------+------+-------------+---------------+-------------------+

ci-info: | lo | True | 127.0.0.1 | 255.0.0.0 | . |

ci-info: | eth0 | True | 191.0.1.113 | 255.255.255.0 | fa:16:3e:4e:22:0e |

kill dnsmasq

service dnsmasq start assigns no ip to dnsmasq

[dan@rogue ~]$ netstat -anlp | grep -w 53

(No info could be read for "-p": geteuid()=500 but you should be root.)

tcp 0 0 0.0.0.0:53 0.0.0.0:\* LISTEN -

tcp 0 0 :::53 :::\* LISTEN -

note a vm start DOES NOT assign ip SO ‘192.168.122.1’ is important to dnmasq

PLUS this seems to validate dnsmasq as the DHCP server .. so why doesn’t it also

Work as the DNS?

Had to reboot to get the ip back to 192.168.122.1:53 and ip assignment working again in the VMs

Tried adding this ,,

net.ipv4.conf.all.rp\_filter=0

net.ipv4.conf.default.rp\_filter=0

to ‘/etc/sysctl.conf’

@run

neutron agent-list

Appendix A console log

Press any key to continue.

[H[J

GNU GRUB version 0.97 (631K lower / 2096116K upper memory)

[m[4;2H+-------------------------------------------------------------------------+[5;2H|[5;76H|[6;2H|[6;76H|[7;2H|[7;76H|[8;2H|[8;76H|[9;2H|[9;76H|[10;2H|[10;76H|[11;2H|[11;76H|[12;2H|[12;76H|[13;2H|[13;76H|[14;2H|[14;76H|[15;2H|[15;76H|[16;2H|[16;76H|[17;2H+-------------------------------------------------------------------------+[m

Use the ^ and v keys to select which entry is highlighted.

Press enter to boot the selected OS, 'e' to edit the

commands before booting, 'a' to modify the kernel arguments

before booting, or 'c' for a command-line.[5;78H [m[7m[5;3H CentOS (2.6.32-504.12.2.el6.x86\_64) [5;75H[m[m[6;3H CentOS (2.6.32-431.29.2.el6.x86\_64) [6;75H[m[m[7;3H [7;75H[m[m[8;3H [8;75H[m[m[9;3H [9;75H[m[m[10;3H [10;75H[m[m[11;3H [11;75H[m[m[12;3H [12;75H[m[m[13;3H [13;75H[m[m[14;3H [14;75H[m[m[15;3H [15;75H[m[m[16;3H [16;75H[m[16;78H [5;75H[23;4HThe highlighted entry will be booted automatically in 1 seconds. [5;75H[H[JInitializing cgroup subsys cpuset

Initializing cgroup subsys cpu

Linux version 2.6.32-504.12.2.el6.x86\_64 (mockbuild@c6b9.bsys.dev.centos.org) (gcc version 4.4.7 20120313 (Red Hat 4.4.7-11) (GCC) ) #1 SMP Wed Mar 11 22:03:14 UTC 2015

Command line: ro root=UUID=dcb1645e-05a6-4311-8bce-a9c12bec5801 rd\_NO\_LUKS rd\_NO\_LVM LANG=en\_US.UTF-8 rd\_NO\_MD console=ttyS0,115200 crashkernel=auto SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us rd\_NO\_DM

KERNEL supported cpus:

Intel GenuineIntel

AMD AuthenticAMD

Centaur CentaurHauls

Disabled fast string operations

BIOS-provided physical RAM map:

BIOS-e820: 0000000000000000 - 000000000009dc00 (usable)

BIOS-e820: 000000000009dc00 - 00000000000a0000 (reserved)

BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)

BIOS-e820: 0000000000100000 - 000000007fffd000 (usable)

BIOS-e820: 000000007fffd000 - 0000000080000000 (reserved)

BIOS-e820: 00000000fffbc000 - 0000000100000000 (reserved)

DMI 2.4 present.

SMBIOS version 2.4 @ 0xFDA30

Hypervisor detected: KVM

last\_pfn = 0x7fffd max\_arch\_pfn = 0x400000000

x86 PAT enabled: cpu 0, old 0x70106, new 0x7010600070106

init\_memory\_mapping: 0000000000000000-000000007fffd000

RAMDISK: 372f8000 - 37fef2b5

ACPI: RSDP 00000000000fda00 00014 (v00 BOCHS )

ACPI: RSDT 000000007fffd630 00034 (v01 BOCHS BXPCRSDT 00000001 BXPC 00000001)

ACPI: FACP 000000007ffffe10 00074 (v01 BOCHS BXPCFACP 00000001 BXPC 00000001)

ACPI: DSDT 000000007fffd910 024A2 (v01 BXPC BXDSDT 00000001 INTL 20090123)

ACPI: FACS 000000007ffffdc0 00040

ACPI: SSDT 000000007fffd870 0009E (v01 BOCHS BXPCSSDT 00000001 BXPC 00000001)

ACPI: APIC 000000007fffd780 00078 (v01 BOCHS BXPCAPIC 00000001 BXPC 00000001)

ACPI: SSDT 000000007fffd670 0010F (v01 BXPC BXSSDTPC 00000001 INTL 20090123)

Setting APIC routing to flat.

No NUMA configuration found

Faking a node at 0000000000000000-000000007fffd000

Bootmem setup node 0 0000000000000000-000000007fffd000

NODE\_DATA [000000000000a000 - 000000000003dfff]

bootmap [000000000003e000 - 000000000004dfff] pages 10

(7 early reservations) ==> bootmem [0000000000 - 007fffd000]

#0 [0000000000 - 0000001000] BIOS data page ==> [0000000000 - 0000001000]

#1 [0000006000 - 0000008000] TRAMPOLINE ==> [0000006000 - 0000008000]

#2 [0001000000 - 0002029be4] TEXT DATA BSS ==> [0001000000 - 0002029be4]

#3 [00372f8000 - 0037fef2b5] RAMDISK ==> [00372f8000 - 0037fef2b5]

#4 [000009dc00 - 0000100000] BIOS reserved ==> [000009dc00 - 0000100000]

#5 [000202a000 - 000202a0d9] BRK ==> [000202a000 - 000202a0d9]

#6 [0000008000 - 000000a000] PGTABLE ==> [0000008000 - 000000a000]

found SMP MP-table at [ffff8800000fda50] fda50

Reserving 129MB of memory at 48MB for crashkernel (System RAM: 2047MB)

kvm-clock: Using msrs 4b564d01 and 4b564d00

kvm-clock: cpu 0, msr 0:1c27841, boot clock

Zone PFN ranges:

DMA 0x00000001 -> 0x00001000

DMA32 0x00001000 -> 0x00100000

Normal 0x00100000 -> 0x00100000

Movable zone start PFN for each node

early\_node\_map[2] active PFN ranges

0: 0x00000001 -> 0x0000009d

0: 0x00000100 -> 0x0007fffd

ACPI: PM-Timer IO Port: 0xb008

Setting APIC routing to flat.

ACPI: LAPIC (acpi\_id[0x00] lapic\_id[0x00] enabled)

ACPI: LAPIC\_NMI (acpi\_id[0xff] dfl dfl lint[0x1])

ACPI: IOAPIC (id[0x00] address[0xfec00000] gsi\_base[0])

IOAPIC[0]: apic\_id 0, version 17, address 0xfec00000, GSI 0-23

ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 0 global\_irq 2 dfl dfl)

ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 5 global\_irq 5 high level)

ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 9 global\_irq 9 high level)

ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 10 global\_irq 10 high level)

ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 11 global\_irq 11 high level)

Using ACPI (MADT) for SMP configuration information

SMP: Allowing 1 CPUs, 0 hotplug CPUs

PM: Registered nosave memory: 000000000009d000 - 000000000009e000

PM: Registered nosave memory: 000000000009e000 - 00000000000a0000

PM: Registered nosave memory: 00000000000a0000 - 00000000000f0000

PM: Registered nosave memory: 00000000000f0000 - 0000000000100000

Allocating PCI resources starting at 80000000 (gap: 80000000:7ffbc000)

Booting paravirtualized kernel on KVM

NR\_CPUS:4096 nr\_cpumask\_bits:1 nr\_cpu\_ids:1 nr\_node\_ids:1

PERCPU: Embedded 30 pages/cpu @ffff880002200000 s90968 r8192 d23720 u2097152

pcpu-alloc: s90968 r8192 d23720 u2097152 alloc=1\*2097152

pcpu-alloc: [0] 0

kvm-clock: cpu 0, msr 0:2215841, primary cpu clock

kvm-stealtime: cpu 0, msr 220d880

Built 1 zonelists in Node order, mobility grouping on. Total pages: 516914

Policy zone: DMA32

Kernel command line: ro root=UUID=dcb1645e-05a6-4311-8bce-a9c12bec5801 rd\_NO\_LUKS rd\_NO\_LVM LANG=en\_US.UTF-8 rd\_NO\_MD console=ttyS0,115200 crashkernel=129M@0M SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us rd\_NO\_DM

PID hash table entries: 4096 (order: 3, 32768 bytes)

Checking aperture...

No AGP bridge found

Memory: 1905512k/2097140k available (5336k kernel code, 400k absent, 191228k reserved, 7016k data, 1288k init)

Hierarchical RCU implementation.

NR\_IRQS:33024 nr\_irqs:256

Console: colour VGA+ 80x25

console [ttyS0] enabled

allocated 8388608 bytes of page\_cgroup

please try 'cgroup\_disable=memory' option if you don't want memory cgroups

Detected 2933.436 MHz processor.

Calibrating delay loop (skipped) preset value.. 5866.87 BogoMIPS (lpj=2933436)

pid\_max: default: 32768 minimum: 301

Security Framework initialized

SELinux: Initializing.

Dentry cache hash table entries: 262144 (order: 9, 2097152 bytes)

Inode-cache hash table entries: 131072 (order: 8, 1048576 bytes)

Mount-cache hash table entries: 256

Initializing cgroup subsys ns

Initializing cgroup subsys cpuacct

Initializing cgroup subsys memory

Initializing cgroup subsys devices

Initializing cgroup subsys freezer

Initializing cgroup subsys net\_cls

Initializing cgroup subsys blkio

Initializing cgroup subsys perf\_event

Initializing cgroup subsys net\_prio

Disabled fast string operations

mce: CPU supports 10 MCE banks

alternatives: switching to unfair spinlock

SMP alternatives: switching to UP code

Freeing SMP alternatives: 36k freed

ACPI: Core revision 20090903

ftrace: converting mcount calls to 0f 1f 44 00 00

ftrace: allocating 21919 entries in 86 pages

Enabling x2apic

Enabled x2apic

APIC routing finalized to physical x2apic.

..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1

CPU0: Intel Core i7 9xx (Nehalem Class Core i7) stepping 03

APIC calibration not consistent with PM-Timer: 101ms instead of 100ms

APIC delta adjusted to PM-Timer: 6249992 (6372162)

Performance Events: unsupported p6 CPU model 26 no PMU driver, software events only.

NMI watchdog disabled (cpu0): hardware events not enabled

Brought up 1 CPUs

Total of 1 processors activated (5866.87 BogoMIPS).

devtmpfs: initialized

regulator: core version 0.5

NET: Registered protocol family 16

ACPI: bus type pci registered

PCI: Using configuration type 1 for base access

bio: create slab <bio-0> at 0

ACPI: Interpreter enabled

ACPI: (supports S0 S5)

ACPI: Using IOAPIC for interrupt routing

ACPI: No dock devices found.

PCI: Ignoring host bridge windows from ACPI; if necessary, use "pci=use\_crs" and report a bug

ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-ff])

PCI host bridge to bus 0000:00

pci\_bus 0000:00: root bus resource [io 0x0000-0xffff]

pci\_bus 0000:00: root bus resource [mem 0x00000000-0xffffffffff]

pci 0000:00:01.3: quirk: [io 0xb000-0xb03f] claimed by PIIX4 ACPI

pci 0000:00:01.3: quirk: [io 0xb100-0xb10f] claimed by PIIX4 SMB

ACPI: PCI Interrupt Link [LNKA] (IRQs 5 \*10 11)

ACPI: PCI Interrupt Link [LNKB] (IRQs 5 \*10 11)

ACPI: PCI Interrupt Link [LNKC] (IRQs 5 10 \*11)

ACPI: PCI Interrupt Link [LNKD] (IRQs 5 10 \*11)

ACPI: PCI Interrupt Link [LNKS] (IRQs \*9)

vgaarb: device added: PCI:0000:00:02.0,decodes=io+mem,owns=io+mem,locks=none

vgaarb: loaded

vgaarb: bridge control possible 0000:00:02.0

SCSI subsystem initialized

usbcore: registered new interface driver usbfs

usbcore: registered new interface driver hub

usbcore: registered new device driver usb

PCI: Using ACPI for IRQ routing

NetLabel: Initializing

NetLabel: domain hash size = 128

NetLabel: protocols = UNLABELED CIPSOv4

NetLabel: unlabeled traffic allowed by default

Switching to clocksource kvm-clock

pnp: PnP ACPI init

ACPI: bus type pnp registered

pnp: PnP ACPI: found 7 devices

ACPI: ACPI bus type pnp unregistered

NET: Registered protocol family 2

IP route cache hash table entries: 65536 (order: 7, 524288 bytes)

TCP established hash table entries: 262144 (order: 10, 4194304 bytes)

TCP bind hash table entries: 65536 (order: 8, 1048576 bytes)

TCP: Hash tables configured (established 262144 bind 65536)

TCP reno registered

NET: Registered protocol family 1

pci 0000:00:00.0: Limiting direct PCI/PCI transfers

pci 0000:00:01.0: PIIX3: Enabling Passive Release

pci 0000:00:01.0: Activating ISA DMA hang workarounds

ACPI: PCI Interrupt Link [LNKD] enabled at IRQ 11

pci 0000:00:01.2: PCI INT D -> Link[LNKD] -> GSI 11 (level, high) -> IRQ 11

pci 0000:00:01.2: PCI INT D disabled

Trying to unpack rootfs image as initramfs...

Freeing initrd memory: 13276k freed

futex hash table entries: 256 (order: 2, 16384 bytes)

audit: initializing netlink socket (disabled)

type=2000 audit(1426433224.318:1): initialized

HugeTLB registered 2 MB page size, pre-allocated 0 pages

VFS: Disk quotas dquot\_6.5.2

Dquot-cache hash table entries: 512 (order 0, 4096 bytes)

msgmni has been set to 3747

alg: No test for stdrng (krng)

ksign: Installing public key data

Loading keyring

- Added public key B26E59ABE2F2C34A

- User ID: CentOS (Kernel Module GPG key)

Block layer SCSI generic (bsg) driver version 0.4 loaded (major 251)

io scheduler noop registered

io scheduler anticipatory registered

io scheduler deadline registered

io scheduler cfq registered (default)

pci\_hotplug: PCI Hot Plug PCI Core version: 0.5

pciehp: PCI Express Hot Plug Controller Driver version: 0.4

acpiphp: ACPI Hot Plug PCI Controller Driver version: 0.5

acpiphp: Slot [1] registered

acpiphp: Slot [2] registered

acpiphp: Slot [3] registered

acpiphp: Slot [4] registered

acpiphp: Slot [5] registered

acpiphp: Slot [6] registered

acpiphp: Slot [7] registered

acpiphp: Slot [8] registered

acpiphp: Slot [9] registered

acpiphp: Slot [10] registered

acpiphp: Slot [11] registered

acpiphp: Slot [12] registered

acpiphp: Slot [13] registered

acpiphp: Slot [14] registered

acpiphp: Slot [15] registered

acpiphp: Slot [16] registered

acpiphp: Slot [17] registered

acpiphp: Slot [18] registered

acpiphp: Slot [19] registered

acpiphp: Slot [20] registered

acpiphp: Slot [21] registered

acpiphp: Slot [22] registered

acpiphp: Slot [23] registered

acpiphp: Slot [24] registered

acpiphp: Slot [25] registered

acpiphp: Slot [26] registered

acpiphp: Slot [27] registered

acpiphp: Slot [28] registered

acpiphp: Slot [29] registered

acpiphp: Slot [30] registered

acpiphp: Slot [31] registered

input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input0

ACPI: Power Button [PWRF]

[Firmware Bug]: No valid trip found

GHES: HEST is not enabled!

Non-volatile memory driver v1.3

Linux agpgart interface v0.103

crash memory driver: version 1.1

Serial: 8250/16550 driver, 4 ports, IRQ sharing enabled

?serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A

serial8250: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A

00:05: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A

00:06: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A

brd: module loaded

loop: module loaded

input: Macintosh mouse button emulation as /devices/virtual/input/input1

Fixed MDIO Bus: probed

ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

uhci\_hcd: USB Universal Host Controller Interface driver

uhci\_hcd 0000:00:01.2: PCI INT D -> Link[LNKD] -> GSI 11 (level, high) -> IRQ 11

uhci\_hcd 0000:00:01.2: UHCI Host Controller

uhci\_hcd 0000:00:01.2: new USB bus registered, assigned bus number 1

uhci\_hcd 0000:00:01.2: irq 11, io base 0x0000c020

usb usb1: New USB device found, idVendor=1d6b, idProduct=0001

usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1

usb usb1: Product: UHCI Host Controller

usb usb1: Manufacturer: Linux 2.6.32-504.12.2.el6.x86\_64 uhci\_hcd

usb usb1: SerialNumber: 0000:00:01.2

usb usb1: configuration #1 chosen from 1 choice

hub 1-0:1.0: USB hub found

hub 1-0:1.0: 2 ports detected

PNP: PS/2 Controller [PNP0303:KBD,PNP0f13:MOU] at 0x60,0x64 irq 1,12

serio: i8042 KBD port at 0x60,0x64 irq 1

serio: i8042 AUX port at 0x60,0x64 irq 12

mice: PS/2 mouse device common for all mice

input: AT Translated Set 2 keyboard as /devices/platform/i8042/serio0/input/input2

rtc\_cmos 00:01: RTC can wake from S4

rtc\_cmos 00:01: rtc core: registered rtc\_cmos as rtc0

rtc0: alarms up to one day, 114 bytes nvram

cpuidle: using governor ladder

cpuidle: using governor menu

EFI Variables Facility v0.08 2004-May-17

usbcore: registered new interface driver hiddev

usbcore: registered new interface driver usbhid

usbhid: v2.6:USB HID core driver

GRE over IPv4 demultiplexor driver

TCP cubic registered

Initializing XFRM netlink socket

NET: Registered protocol family 17

registered taskstats version 1

rtc\_cmos 00:01: setting system clock to 2015-03-15 15:27:03 UTC (1426433223)

Initalizing network drop monitor service

Freeing unused kernel memory: 1288k freed

Write protecting the kernel read-only data: 10240k

Freeing unused kernel memory: 788k freed

Freeing unused kernel memory: 1568k freed

dracut: dracut-004-356.el6\_6.1

udev: starting version 147

dracut: Starting plymouth daemon

scsi0 : ata\_piix

scsi1 : ata\_piix

ata1: PATA max MWDMA2 cmd 0x1f0 ctl 0x3f6 bmdma 0xc000 irq 14

ata2: PATA max MWDMA2 cmd 0x170 ctl 0x376 bmdma 0xc008 irq 15

usb 1-1: new full speed USB device number 2 using uhci\_hcd

ACPI: PCI Interrupt Link [LNKC] enabled at IRQ 10

virtio-pci 0000:00:03.0: PCI INT A -> Link[LNKC] -> GSI 10 (level, high) -> IRQ 10

virtio-pci 0000:00:04.0: PCI INT A -> Link[LNKD] -> GSI 11 (level, high) -> IRQ 11

ACPI: PCI Interrupt Link [LNKA] enabled at IRQ 10

virtio-pci 0000:00:05.0: PCI INT A -> Link[LNKA] -> GSI 10 (level, high) -> IRQ 10

Refined TSC clocksource calibration: 2933.438 MHz.

%G vda: vda1

input: ImExPS/2 Generic Explorer Mouse as /devices/platform/i8042/serio1/input/input3

usb 1-1: New USB device found, idVendor=0627, idProduct=0001

usb 1-1: New USB device strings: Mfr=1, Product=3, SerialNumber=5

usb 1-1: Product: QEMU USB Tablet

usb 1-1: Manufacturer: QEMU 0.12.1

usb 1-1: SerialNumber: 42

usb 1-1: configuration #1 chosen from 1 choice

input: QEMU 0.12.1 QEMU USB Tablet as /devices/pci0000:00/0000:00:01.2/usb1/1-1/1-1:1.0/input/input4

generic-usb 0003:0627:0001.0001: input,hidraw0: USB HID v0.01 Pointer [QEMU 0.12.1 QEMU USB Tablet] on usb-0000:00:01.2-1/input0

EXT4-fs (vda1): mounted filesystem with ordered data mode. Opts:

dracut: Mounted root filesystem /dev/vda1

dracut: Loading SELinux policy

type=1404 audit(1426433224.710:2): enforcing=1 old\_enforcing=0 auid=4294967295 ses=4294967295

type=1403 audit(1426433225.220:3): policy loaded auid=4294967295 ses=4294967295

dracut:

dracut: Switching root

Welcome to CentOS

Starting udev: udevd[324]: can not read '/etc/udev/rules.d/75-persistent-net-generator.rules'

udevd[324]: can not read '/etc/udev/rules.d/75-persistent-net-generator.rules'

udev: starting version 147

piix4\_smbus 0000:00:01.3: SMBus Host Controller at 0xb100, revision 0

%G[ OK ]

Setting hostname user-image1.atos.net: [ OK ]

device-mapper: uevent: version 1.0.3

device-mapper: ioctl: 4.27.0-ioctl (2013-10-30) initialised: dm-devel@redhat.com

Checking filesystems

Checking all file systems.

[/sbin/fsck.ext4 (1) -- /] fsck.ext4 -a /dev/vda1

/dev/vda1: clean, 42830/524288 files, 384519/2096896 blocks

[ OK ]

Remounting root filesystem in read-write mode: [ OK ]

Mounting local filesystems: [ OK ]

Enabling /etc/fstab swaps: [ OK ]

Entering non-interactive startup

ip6tables: Applying firewall rules: NET: Registered protocol family 10

lo: Disabled Privacy Extensions

ip6\_tables: (C) 2000-2006 Netfilter Core Team

nf\_conntrack version 0.5.0 (16384 buckets, 65536 max)

[ OK ]

iptables: Applying firewall rules: ip\_tables: (C) 2000-2006 Netfilter Core Team

[ OK ]

Bringing up loopback interface: [ OK ]

Bringing up interface eth0:

Determining IP information for eth0... done.

[ OK ]

Starting auditd: type=1305 audit(1426433247.629:4): audit\_pid=889 old=0 auid=4294967295 ses=4294967295 subj=system\_u:system\_r:auditd\_t:s0 res=1

[ OK ]

Starting system logger: [ OK ]

Mounting filesystems: [ OK ]

Starting acpi daemon: [ OK ]

Retrigger failed udev events[ OK ]

Starting cloud-init: Cloud-init v. 0.7.5 running 'init-local' at Sun, 15 Mar 2015 15:27:29 +0000. Up 27.20 seconds.

Starting cloud-init: Cloud-init v. 0.7.5 running 'init' at Sun, 15 Mar 2015 15:27:30 +0000. Up 28.22 seconds.

ci-info: ++++++++++++++++++++++++++Net device info++++++++++++++++++++++++++

ci-info: +--------+------+-------------+---------------+-------------------+

ci-info: | Device | Up | Address | Mask | Hw-Address |

ci-info: +--------+------+-------------+---------------+-------------------+

ci-info: | lo | True | 127.0.0.1 | 255.0.0.0 | . |

ci-info: | eth0 | True | 191.0.1.111 | 255.255.255.0 | fa:16:3e:ae:66:e5 |

ci-info: +--------+------+-------------+---------------+-------------------+

ci-info: ++++++++++++++++++++++++++++++Route info+++++++++++++++++++++++++++++++

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

ci-info: | Route | Destination | Gateway | Genmask | Interface | Flags |

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

ci-info: | 0 | 191.0.1.0 | 0.0.0.0 | 255.255.255.0 | eth0 | U |

ci-info: | 1 | 0.0.0.0 | 191.0.1.1 | 0.0.0.0 | eth0 | UG |

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

Starting cloud-init: Cloud-init v. 0.7.5 running 'modules:config' at Sun, 15 Mar 2015 15:27:37 +0000. Up 34.60 seconds.

Starting cloud-init: Cloud-init v. 0.7.5 running 'modules:final' at Sun, 15 Mar 2015 15:27:38 +0000. Up 35.67 seconds.

ci-info: ++++++++++Authorized keys from /home/centos/.ssh/authorized\_keys for user centos+++++++++++

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ci-info: | Keytype | Fingerprint (md5) | Options | Comment |

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ci-info: | ssh-rsa | e3:d8:d9:c9:f8:8d:de:c6:66:b0:11:fc:be:57:8c:10 | - | Generated by Nova |

ci-info: | ssh-rsa | 1d:06:65:82:a1:81:53:a4:ac:9d:86:cc:d2:fb:b5:6f | - | Generated by Nova |

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ec2:

ec2: #############################################################

ec2: -----BEGIN SSH HOST KEY FINGERPRINTS-----

ec2: 1024 b5:30:ba:60:07:0c:6a:89:96:07:91:ff:f2:76:38:1f /etc/ssh/ssh\_host\_dsa\_key.pub (DSA)

ec2: 2048 72:5b:96:06:5a:4c:fa:50:c1:ba:16:d0:6c:5d:01:84 /etc/ssh/ssh\_host\_key.pub (RSA1)

ec2: 2048 0a:54:44:f2:67:c2:2a:2f:9f:ac:ab:9c:54:1b:e4:01 /etc/ssh/ssh\_host\_rsa\_key.pub (RSA)

ec2: -----END SSH HOST KEY FINGERPRINTS-----

ec2: #############################################################

-----BEGIN SSH HOST KEY KEYS-----

2048 35 25342256369425369759348892783647332824235635144152580182450353206796297983400785192743250724313372443788061402184950327833828827832077753555026039213264788477640075016862659421481486439657915966076955670210353857632380790213481258238656304415532139290328876650785150089904179244386116153648329158513648610601677364950643374095511640616437144898344797791657074049626350200487974266059383450249502616739508626141861239362096228355073020626496369900584279329809191770991361235167341235634929472438178546613067865734729322988995729718248779947562257520214740770729986952936266824006624286764488048080104319426469902019527

ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEAxSgvFfaOkSkmrP5Qc025BklK8IWqqNcnH9W+Gz9HCc7ULEGJHX/rDwzuqxQySi5wditJ01YIl73q9CSLelvjl5O6dTF2U374crlZErGB7BIY1EnCag6zbFqNxgzRlktjebpPLOVtcWfbBqLcz5dJ7vXBoLm2Z7aJYsrmAfjk5ltKEg4avdsDM9RlqhoVMNdYfAJ9KN/juSsIBKsi5jbbtE0x4H8nhFlIEEx7ZynaQxLfq2MIHSpKYGVLgI2yw6/knPUqqt1WyhWvbzZsCRM9lKIUp7Fym/S78utBUMhv9LEev0RTThFRAKU9tTGpTNu9wTb1/ev8j0nLplL6q7ZiRQ==

-----END SSH HOST KEY KEYS-----

Cloud-init v. 0.7.5 finished at Sun, 15 Mar 2015 15:27:38 +0000. Datasource DataSourceOpenStack [net,ver=2]. Up 35.98 seconds

Starting postfix: [ OK ]

Starting crond: [ OK ]

CentOS release 6.6 (Final)

Kernel 2.6.32-504.12.2.el6.x86\_64 on an x86\_64

idleserver1 login:

///////////merlin set up///////////////

\*gnome

yum groupinstall -y 'X Window System' ; yum groupinstall -y 'Desktop'

yum –y install firefox

yum groupinstall -y 'Desktop'

Big hammer existing Openstack

Manually delete recognizable /etc/configs BUT NOT rabbitmq (did that come from centos)?

If have problem with rabbitmq starting then

‘yum remove rabbitmq ‘ ‘yum install rabbitmq-server.noarch ‘

Dl icehouse rpm from rdo/fedora .. rdo-release-icehouse-4.noarch.rpm

Yum –y update

\*Yum remove icehouse

yum remove rdo-release.noarch

yum install rdo-release-icehouse-4.noarch.rpm

MAKE SURE NOT ROOT HERE

**sudo** yum install -y openstack-packstack

packstack --allinone

RUN “openstack-status”

\*nameserver 8.8.8.8

Set in demo:private subnet dns nameservers.

Set atos logos in images ..

cpy logo-splash.png > /usr/share/openstack-dashboard/static/dashboard/img

cpy logo.png > /usr/share/openstack-dashboard/static/dashboard/img

Yum –y install mlocate

\*Yum –y install java

sudo yum -y install java-1.7.0-openjdk.x86\_64

sudo yum -y install java-1.7.0-openjdk-devel.x86\_64

# .bash\_profile

# Get the aliases and functions

if [ -f ~/.bashrc ]; then

. ~/.bashrc

fi

# User specific environment and startup programs

PATH=$PATH:$HOME/bin

export JAVA\_HOME=/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.65.x86\_64/jre

export M2\_HOME=/usr/local/apache-maven/apache-maven-3.2.2

M2=$M2\_HOME/bin

export CLOUDCRAFT\_HOME=/home/jcloud

PATH=$CLOUDCRAFT\_HOME:$PATH

PATH=$M2:$PATH

export PATH

CLASSPATH=/home/jcloud/target/dependency/\*:.

export CLASSPATH

* Configure br-ex

[dan@rogue jcloud]$ sudo cat /etc/sysconfig/network-scripts/ifcfg-br-ex

DEVICE=br-ex

DEVICETYPE=ovs

TYPE=OVSBridge

BOOTPROTO=static

IPADDR=172.24.4.225

NETMASK=255.255.255.240

ONBOOT=yes

[dan@rogue jcloud]$ ping 172.24.4.229

PING 172.24.4.229 (172.24.4.229) 56(84) bytes of data.

From 4.28.81.117 icmp\_seq=1 Destination Net Unreachable

From 4.28.81.117 icmp\_seq=2 Destination Net Unreachable

From 4.28.81.117 icmp\_seq=3 Destination Net Unreachable

Note ‘From 4.28.81.117’ – and not ‘172.24.4.225’

Look for “tap” in ifconfig

Chkconfig NetworkManager off; service NetworkManager stop

\*edit sshd to disable strict credenttal checking

#dpr stop asking that stupid question

In ‘/etc/ssh/ssh\_config’

StrictHostKeyChecking no

sudo service sshd restart

INSTALL VIRGANET

191.0.1.0/24

191.0.1.100,191.0.1.120

//////////////////////fukit//////////////////////////////

??Change paths in nova.conf, glance-api.conf, glance-cache.conf, cinder.conf REBOOT to ??use new paths

////////////////////////////////////////////////////////

curl -L http://www.getchef.com/chef/install.sh | bash

Enable kvm in bios

‘lsmod | grep kvm ‘

‘modprobe -a kvm-intel ‘

Horizon change passwords and also change in keystone-‘s ?

Glance centos-6.5-2014017.0.x86\_64.qcow2

glance image-create --name centos\_base --disk-format qcow2 --container-format bare --is-public true --file /home/dan/Downloads/centos-6.5-2014017.0.x86\_64.qcow2

Iptables?? Wtf?

\*cinder file size error

https://openstack.redhat.com/forum/discussion/99/solved-error-creating-a-volume/p1

ls -lh /images/cinder/\* ls -lh /var/lib/cinder/\*

cpy logo-splash.png > /usr/share/openstack-dashboard/static/dashboard/img

cpy logo.png > /usr/share/openstack-dashboard/static/dashboard/img

-bash-4.1# yum -y remove rabbitmq-server.noarch

Removed:

rabbitmq-server.noarch 0:3.1.5-1.el6

-bash-4.1# yum -y install rabbitmq-server.noarch

Installed:

rabbitmq-server.noarch 0:3.1.5-1.el6

Complete!

-bash-4.1# service rabbitmq-server status

Status of node rabbit@rogue ...

Error: unable to connect to node rabbit@rogue: nodedown

-bash-4.1# /sbin/service rabbitmq-server start

Starting rabbitmq-server: SUCCESS

rabbitmq-server.

-bash-4.1# service rabbitmq-server status

Status of node rabbit@rogue ...

-bash-4.1# yum remove rdo-release.noarch

Removed:

rdo-release.noarch 0:icehouse-4

Complete!

-bash-4.1# for x in $(virsh list --all | grep instance- | awk '{print $2}') ; do

> virsh destroy $x ;

> virsh undefine $x ;

> done ;

-bash-4.1# yum remove -y nrpe "\*nagios\*" puppet ntp ntp-perl ntpdate "\*openstack\*" \

> "\*nova\*" "\*keystone\*" "\*glance\*" "\*cinder\*" "\*swift\*" \

> mysql mysql-server httpd "\*memcache\*" scsi-target-utils \

> iscsi-initiator-utils perl-DBI perl-DBD-MySQL ;

Complete!

-bash-4.1# ps -ef | grep -i repli | grep swift | awk '{print $2}' | xargs kill ;

-bash-4.1# rm -rf /etc/nagios /etc/yum.repos.d/packstack\_\* /root/.my.cnf \

> /var/lib/mysql/ /var/lib/glance /var/lib/nova /etc/nova /etc/swift \

> /srv/node/device\*/\* /var/lib/cinder/ /etc/rsync.d/frag\* \

> /var/cache/swift /var/log/keystone ;

-bash-4.1# rm -rf /etc/nagios /etc/yum.repos.d/packstack\_\* /root/.my.cnf \

> /var/lib/mysql/ /var/lib/glance /var/lib/nova /etc/nova /etc/swift \

> /srv/node/device\*/\* /var/lib/cinder/ /etc/rsync.d/frag\* \

> /var/cache/swift /var/log/keystone ;

-bash-4.1# umount /srv/node/device\* ;

umount: /srv/node/device\*: not found

-bash-4.1# killall -9 dnsmasq tgtd httpd ;

-bash-4.1# setenforce 1 ;

setenforce: SELinux is disabled

-bash-4.1# vgremove -f cinder-volumes ;

losetup -a | sed -e 's/:.\*//g' | xargs losetup -d ;

find /etc/pki/tls -name "ssl\_ps\*" | xargs rm -rf ;

for x in $(df | grep "/lib/" | sed -e 's/.\* //g') ; do

umount $x ;

done Volume group "cinder-volumes" successfully removed

-bash-4.1# losetup -a | sed -e 's/:.\*//g' | xargs losetup -d ;

loop: can't delete device /dev/loop0: Device or resource busy

loop: can't delete device /dev/loop1: Device or resource busy

-bash-4.1# find /etc/pki/tls -name "ssl\_ps\*" | xargs rm -rf ;

-bash-4.1# for x in $(df | grep "/lib/" | sed -e 's/.\* //g') ; do

> umount $x ;

> done

-bash-4.1# yum -y update

Loaded plugins: fastestmirror, priorities, refresh-packagekit

Setting up Update Process

Loading mirror speeds from cached hostfile

\* base: mirror.raystedman.net

\* epel: mirror.steadfast.net

\* extras: centos.mirrors.hoobly.com

\* updates: mirror.lax.hugeserver.com

No Packages marked for Update

rdo-release.noarch 0:icehouse-4

yum remove rdo-release.noarch

-bash-4.1# yum -y install /home/dan/rdo-release-icehouse-4.noarch.rpm

Complete!

-bash-4.1# exit

logout

[dan@rogue ~]$ sudo yum install -y openstack-packstack

Complete!

[dan@rogue home]$ packstack --allinone

Welcome to Installer setup utility

Installing:

Clean Up [ DONE ]

root@141.112.17.7's password:

Setting up ssh keys [ DONE ]

Discovering hosts' details [ DONE ]

Adding pre install manifest entries [ DONE ]

Preparing servers [ DONE ]

Adding AMQP manifest entries [ DONE ]

Adding MariaDB manifest entries [ DONE ]

Adding Keystone manifest entries [ DONE ]

Adding Glance Keystone manifest entries [ DONE ]

Adding Glance manifest entries [ DONE ]

Adding Cinder Keystone manifest entries [ DONE ]

Adding Cinder manifest entries [ DONE ]

Checking if the Cinder server has a cinder-volumes vg[ DONE ]

Adding Nova API manifest entries [ DONE ]

Adding Nova Keystone manifest entries [ DONE ]

Adding Nova Cert manifest entries [ DONE ]

Adding Nova Conductor manifest entries [ DONE ]

Creating ssh keys for Nova migration [ DONE ]

Gathering ssh host keys for Nova migration [ DONE ]

Adding Nova Compute manifest entries [ DONE ]

Adding Nova Scheduler manifest entries [ DONE ]

Adding Nova VNC Proxy manifest entries [ DONE ]

Adding Openstack Network-related Nova manifest entries[ DONE ]

Adding Nova Common manifest entries [ DONE ]

Adding Neutron API manifest entries [ DONE ]

Adding Neutron Keystone manifest entries [ DONE ]

Adding Neutron L3 manifest entries [ DONE ]

Adding Neutron L2 Agent manifest entries [ DONE ]

Adding Neutron DHCP Agent manifest entries [ DONE ]

Adding Neutron LBaaS Agent manifest entries [ DONE ]

Adding Neutron Metering Agent manifest entries [ DONE ]

Adding Neutron Metadata Agent manifest entries [ DONE ]

Checking if NetworkManager is enabled and running [ DONE ]

Adding OpenStack Client manifest entries [ DONE ]

Adding Horizon manifest entries [ DONE ]

Adding Swift Keystone manifest entries [ DONE ]

Adding Swift builder manifest entries [ DONE ]

Adding Swift proxy manifest entries [ DONE ]

Adding Swift storage manifest entries [ DONE ]

Adding Swift common manifest entries [ DONE ]

Adding Provisioning Demo manifest entries [ DONE ]

Adding Provisioning Glance manifest entries [ DONE ]

Adding MongoDB manifest entries [ DONE ]

Adding Ceilometer manifest entries [ DONE ]

Adding Ceilometer Keystone manifest entries [ DONE ]

Adding Nagios server manifest entries [ DONE ]

Adding Nagios host manifest entries [ DONE ]

Adding post install manifest entries [ DONE ]

Installing Dependencies [ DONE ]

Copying Puppet modules and manifests [ DONE ]

Applying 141.112.17.7\_prescript.pp

141.112.17.7\_prescript.pp: [ DONE ]

Applying 141.112.17.7\_amqp.pp

Applying 141.112.17.7\_mariadb.pp

141.112.17.7\_amqp.pp: [ DONE ]

141.112.17.7\_mariadb.pp: [ DONE ]

Applying 141.112.17.7\_keystone.pp

Applying 141.112.17.7\_glance.pp

Applying 141.112.17.7\_cinder.pp

141.112.17.7\_keystone.pp: [ DONE ]

141.112.17.7\_cinder.pp: [ DONE ]

141.112.17.7\_glance.pp: [ DONE ]

Applying 141.112.17.7\_api\_nova.pp

141.112.17.7\_api\_nova.pp: [ DONE ]

Applying 141.112.17.7\_nova.pp

141.112.17.7\_nova.pp: [ DONE ]

Applying 141.112.17.7\_neutron.pp

141.112.17.7\_neutron.pp: [ DONE ]

Applying 141.112.17.7\_neutron\_fwaas.pp

Applying 141.112.17.7\_osclient.pp

Applying 141.112.17.7\_horizon.pp

141.112.17.7\_neutron\_fwaas.pp: [ DONE ]

141.112.17.7\_osclient.pp: [ DONE ]

141.112.17.7\_horizon.pp: [ DONE ]

Applying 141.112.17.7\_ring\_swift.pp

141.112.17.7\_ring\_swift.pp: [ DONE ]

Applying 141.112.17.7\_swift.pp

Applying 141.112.17.7\_provision\_demo.pp

Applying 141.112.17.7\_provision\_glance.pp

141.112.17.7\_swift.pp: [ DONE ]

141.112.17.7\_provision\_glance.pp: [ DONE ]

141.112.17.7\_provision\_demo.pp: [ DONE ]

Applying 141.112.17.7\_mongodb.pp

141.112.17.7\_mongodb.pp: [ DONE ]

Applying 141.112.17.7\_ceilometer.pp

Applying 141.112.17.7\_nagios.pp

Applying 141.112.17.7\_nagios\_nrpe.pp

141.112.17.7\_ceilometer.pp: [ DONE ]

141.112.17.7\_nagios.pp: [ DONE ]

141.112.17.7\_nagios\_nrpe.pp: [ DONE ]

Applying 141.112.17.7\_postscript.pp

141.112.17.7\_postscript.pp: [ DONE ]

Applying Puppet manifests [ DONE ]

Finalizing [ DONE ]

\*\*\*\* Installation completed successfully \*\*\*\*\*\*

----------------------move off /var/lib----------------------

[root@rogue ~]# cd /var/lib; ln -s /images/var/lib/glance glance; ln -s /images/var/lib/nova nova; ln -s /images/var/lib/cinder cinder

----------------------^^^^^^^^^^^^^----------------------

Additional information:

\* A new answerfile was created in: /home/dan/packstack-answers-20150311-085231.txt

\* Time synchronization installation was skipped. Please note that unsynchronized time on server instances might be problem for some OpenStack components.

\* File /root/keystonerc\_admin has been created on OpenStack client host 141.112.17.7. To use the command line tools you need to source the file.

\* Copy of keystonerc\_admin file has been created for non-root user in /home/dan.

\* To access the OpenStack Dashboard browse to http://141.112.17.7/dashboard .

Please, find your login credentials stored in the keystonerc\_admin in your home directory.

\* To use Nagios, browse to http://141.112.17.7/nagios username: nagiosadmin, password: c9ab28e2b0d840c2

\* Because of the kernel update the host 141.112.17.7 requires reboot.

\* The installation log file is available at: /var/tmp/packstack/20150311-085231-9Qy0ka/openstack-setup.log

\* The generated manifests are available at: /var/tmp/packstack/20150311-085231-9Qy0ka/manifests

[dan@rogue home(keystone\_admin)]$ sudo openstack-status

== Nova services ==

openstack-nova-api: active

openstack-nova-cert: active

openstack-nova-compute: active

openstack-nova-network: dead (disabled on boot)

openstack-nova-scheduler: active

openstack-nova-conductor: active

== Glance services ==

openstack-glance-api: active

openstack-glance-registry: active

== Keystone service ==

openstack-keystone: active

== Horizon service ==

openstack-dashboard: active

== neutron services ==

neutron-server: active

neutron-dhcp-agent: active

neutron-l3-agent: active

neutron-metadata-agent: active

neutron-lbaas-agent: inactive (disabled on boot)

neutron-openvswitch-agent: active

== Swift services ==

openstack-swift-proxy: active

openstack-swift-account: active

openstack-swift-container: active

openstack-swift-object: active

== Cinder services ==

openstack-cinder-api: active

openstack-cinder-scheduler: active

openstack-cinder-volume: active

openstack-cinder-backup: active

== Ceilometer services ==

openstack-ceilometer-api: active

openstack-ceilometer-central: active

openstack-ceilometer-compute: active

openstack-ceilometer-collector: active

openstack-ceilometer-alarm-notifier: active

openstack-ceilometer-alarm-evaluator: active

== Support services ==

libvirtd: active

openvswitch: active

messagebus: active

tgtd: active

rabbitmq-server: active

memcached: active

== Keystone users ==

Warning keystonerc not sourced

[root@rogue ~]# cat /root/keystonerc\_admin

export OS\_USERNAME=admin

export OS\_TENANT\_NAME=admin

export OS\_PASSWORD=3edf9dcc20dd42ce

export OS\_AUTH\_URL=http://141.112.17.7:5000/v2.0/

export PS1='[\u@\h \W(keystone\_admin)]\$ '

[root@rogue ~]# cat /root/keystonerc\_demo

export OS\_USERNAME=demo

export OS\_TENANT\_NAME=demo

export OS\_PASSWORD=f7a8479dea3646a9

export OS\_AUTH\_URL=http://141.112.17.7:5000/v2.0/

export PS1='[\u@\h \W(keystone\_demo)]\$ '

[root@rogue ~]# [dan@rogue default]$

//TODO make this a script

Mkdir /home/jcloud/provisions

Mkdir /home/jcloud/keys

Mkdir /home/jcloud/recipes

Ensure virganet/subnet network ids in cloudcraft points to active ids

///////////////////iptables/////////////////////

sudo service iptables –flush to temporary clean and test

sudo service iptables save

looks like really need to execute

‘sudo /home/jcloud/scripts/iptables.sh ‘

To get internet out to work ..

[dan@rogue ~]$ sudo cat /etc/sysconfig/iptables

# Generated by iptables-save v1.4.7 on Wed Mar 4 09:16:26 2015

\*mangle

:PREROUTING ACCEPT [9910:2401252]

:INPUT ACCEPT [9653:2384610]

:FORWARD ACCEPT [107:9470]

:OUTPUT ACCEPT [9403:2372784]

:POSTROUTING ACCEPT [9510:2382254]

:nova-api-POSTROUTING - [0:0]

-A POSTROUTING -j nova-api-POSTROUTING

-A POSTROUTING -o virbr0 -p udp -m udp --dport 68 -j CHECKSUM --checksum-fill

COMMIT

# Completed on Wed Mar 4 09:16:26 2015

# Generated by iptables-save v1.4.7 on Wed Mar 4 09:16:26 2015

\*nat

:PREROUTING ACCEPT [72:4649]

:POSTROUTING ACCEPT [15:942]

:OUTPUT ACCEPT [12:720]

:neutron-openvswi-OUTPUT - [0:0]

:neutron-openvswi-POSTROUTING - [0:0]

:neutron-openvswi-PREROUTING - [0:0]

:neutron-openvswi-float-snat - [0:0]

:neutron-openvswi-snat - [0:0]

:neutron-postrouting-bottom - [0:0]

:nova-api-OUTPUT - [0:0]

:nova-api-POSTROUTING - [0:0]

:nova-api-PREROUTING - [0:0]

:nova-api-float-snat - [0:0]

:nova-api-snat - [0:0]

:nova-postrouting-bottom - [0:0]

-A PREROUTING -j neutron-openvswi-PREROUTING

-A PREROUTING -j nova-api-PREROUTING

-A POSTROUTING -j neutron-openvswi-POSTROUTING

-A POSTROUTING -j neutron-postrouting-bottom

-A POSTROUTING -j nova-api-POSTROUTING

-A POSTROUTING -s 192.168.122.0/24 ! -d 192.168.122.0/24 -p tcp -j MASQUERADE --to-ports 1024-65535

-A POSTROUTING -s 192.168.122.0/24 ! -d 192.168.122.0/24 -p udp -j MASQUERADE --to-ports 1024-65535

-A POSTROUTING -s 192.168.122.0/24 ! -d 192.168.122.0/24 -j MASQUERADE

-A POSTROUTING -j nova-postrouting-bottom

-A POSTROUTING -o eth0 -j MASQUERADE

-A OUTPUT -j neutron-openvswi-OUTPUT

-A OUTPUT -j nova-api-OUTPUT

-A neutron-openvswi-snat -j neutron-openvswi-float-snat

-A neutron-postrouting-bottom -j neutron-openvswi-snat

-A nova-api-snat -j nova-api-float-snat

-A nova-postrouting-bottom -j nova-api-snat

COMMIT

# Completed on Wed Mar 4 09:16:26 2015

# Generated by iptables-save v1.4.7 on Wed Mar 4 09:16:26 2015

\*filter

:INPUT ACCEPT [3816:916829]

:FORWARD ACCEPT [40:3908]

:OUTPUT ACCEPT [3715:912006]

:neutron-filter-top - [0:0]

:neutron-openvswi-FORWARD - [0:0]

:neutron-openvswi-INPUT - [0:0]

:neutron-openvswi-OUTPUT - [0:0]

:neutron-openvswi-i9bec07ae-9 - [0:0]

:neutron-openvswi-local - [0:0]

:neutron-openvswi-o9bec07ae-9 - [0:0]

:neutron-openvswi-s9bec07ae-9 - [0:0]

:neutron-openvswi-sg-chain - [0:0]

:neutron-openvswi-sg-fallback - [0:0]

:nova-api-FORWARD - [0:0]

:nova-api-INPUT - [0:0]

:nova-api-OUTPUT - [0:0]

:nova-api-local - [0:0]

:nova-filter-top - [0:0]

-A FORWARD -i eth0 -o eth1 -m state --state RELATED,ESTABLISHED -j ACCEPT

-A FORWARD -i eth1 -o eth0 -j ACCEPT

COMMIT

# Completed on Wed Mar 4 09:16:26 2015

\*Unexpected vif\_type=binding\_failed

Issue Openstack-status and check for down agents, particularly

‘service neutron-openvswitch-agent restart ‘

FAILED PING IFCONFIG

[root@rogue ~]# ifconfig

br-ex Link encap:Ethernet HWaddr 3E:D3:13:54:C3:46

inet addr:172.24.4.225 Bcast:172.24.4.239 Mask:255.255.255.240

inet6 addr: fe80::6c40:e3ff:fee4:6613/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:22 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:1140 (1.1 KiB)

br-int Link encap:Ethernet HWaddr 7A:29:30:E8:B8:47

inet6 addr: fe80::1834:b5ff:fe8e:5ab4/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:456 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:24708 (24.1 KiB) TX bytes:468 (468.0 b)

br-tun Link encap:Ethernet HWaddr B6:35:C7:7B:9B:4E

inet6 addr: fe80::98bd:4aff:fe5d:511d/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:468 (468.0 b)

eth0 Link encap:Ethernet HWaddr 00:30:48:C7:39:0E

inet addr:141.112.17.7 Bcast:141.112.17.255 Mask:255.255.255.0

inet6 addr: fe80::230:48ff:fec7:390e/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:23772 errors:0 dropped:0 overruns:0 frame:0

TX packets:11019 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:2771245 (2.6 MiB) TX bytes:6219461 (5.9 MiB)

Memory:fae80000-fae9ffff

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:502903 errors:0 dropped:0 overruns:0 frame:0

TX packets:502903 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:189077104 (180.3 MiB) TX bytes:189077104 (180.3 MiB)

qvbf04f71ea-62 Link encap:Ethernet HWaddr 22:35:27:AB:A0:80

inet6 addr: fe80::2035:27ff:feab:a080/64 Scope:Link

UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1

RX packets:176 errors:0 dropped:0 overruns:0 frame:0

TX packets:193 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:17565 (17.1 KiB) TX bytes:18281 (17.8 KiB)

qvof04f71ea-62 Link encap:Ethernet HWaddr 3A:A7:15:BE:38:92

inet6 addr: fe80::38a7:15ff:febe:3892/64 Scope:Link

UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1

RX packets:193 errors:0 dropped:0 overruns:0 frame:0

TX packets:176 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:18281 (17.8 KiB) TX bytes:17565 (17.1 KiB)

virbr0 Link encap:Ethernet HWaddr 52:54:00:85:54:B5

inet addr:192.168.122.1 Bcast:192.168.122.255 Mask:255.255.255.0

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

GOOD PING IFCONFIG

Note new qbr and tap interfaces

A TAP device, such as vnet0 is how hypervisors such as KVM and Xen implement a virtual network interface card (typically called a VIF or vNIC). An Ethernet frame sent to a TAP device is received by the guest operating system.

Ideally, the TAP device vnet0 would be connected directly to the integration bridge, br-int. Unfortunately, this isn't possible because of how OpenStack security groups are currently implemented. OpenStack uses iptables rules on the TAP devices such as vnet0 to implement security groups, and Open vSwitch is not compatible with iptables rules that are applied directly on TAP devices that are connected to an Open vSwitch port.

Networking uses an extra Linux bridge and a veth pair as a workaround for this issue. Instead of connecting vnet0 to an Open vSwitch bridge, it is connected to a Linux bridge, qbr*XXX*. This bridge is connected to the integration bridge, br-int, through the (qvb*XXX*, qvo*XXX*) veth pair.

http://docs.openstack.org/admin-guide-cloud/content/under\_the\_hood\_openvswitch.html

[dan@rogue jcloud]$ ifconfig

br-ex Link encap:Ethernet HWaddr 7E:77:92:21:8F:4D

inet addr:172.24.4.225 Bcast:172.24.4.239 Mask:255.255.255.240

inet6 addr: fe80::cced:30ff:fe02:56a6/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:34 errors:0 dropped:0 overruns:0 frame:0

TX packets:32 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:2406 (2.3 KiB) TX bytes:2490 (2.4 KiB)

br-int Link encap:Ethernet HWaddr 4A:96:94:77:19:4E

inet6 addr: fe80::fcfc:75ff:fe25:a518/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:47 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:4254 (4.1 KiB) TX bytes:468 (468.0 b)

br-tun Link encap:Ethernet HWaddr C6:13:10:6C:CD:46

inet6 addr: fe80::f0ad:9aff:fe5b:698a/64 Scope:Link

UP BROADCAST RUNNING MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:468 (468.0 b)

eth0 Link encap:Ethernet HWaddr 00:30:48:C7:39:0E

inet addr:141.112.17.7 Bcast:141.112.17.255 Mask:255.255.255.0

inet6 addr: fe80::230:48ff:fec7:390e/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:2227 errors:0 dropped:0 overruns:0 frame:0

TX packets:1628 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:323037 (315.4 KiB) TX bytes:761425 (743.5 KiB)

Memory:fae80000-fae9ffff

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:44889 errors:0 dropped:0 overruns:0 frame:0

TX packets:44889 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:17547501 (16.7 MiB) TX bytes:17547501 (16.7 MiB)

qbr05afc44c-1b Link encap:Ethernet HWaddr 02:8E:CB:43:F3:28

inet6 addr: fe80::e407:24ff:fef6:9eb8/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:15 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:1668 (1.6 KiB) TX bytes:468 (468.0 b)

qvb05afc44c-1b Link encap:Ethernet HWaddr 02:8E:CB:43:F3:28

inet6 addr: fe80::8e:cbff:fe43:f328/64 Scope:Link

UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1

RX packets:104 errors:0 dropped:0 overruns:0 frame:0

TX packets:148 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:11563 (11.2 KiB) TX bytes:14444 (14.1 KiB)

qvo05afc44c-1b Link encap:Ethernet HWaddr F6:71:D2:74:7B:73

inet6 addr: fe80::f471:d2ff:fe74:7b73/64 Scope:Link

UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1

RX packets:148 errors:0 dropped:0 overruns:0 frame:0

TX packets:104 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:14444 (14.1 KiB) TX bytes:11563 (11.2 KiB)

tap05afc44c-1b Link encap:Ethernet HWaddr FE:16:3E:D5:25:84

inet6 addr: fe80::fc16:3eff:fed5:2584/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:137 errors:0 dropped:0 overruns:0 frame:0

TX packets:110 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:500

RX bytes:13598 (13.2 KiB) TX bytes:12019 (11.7 KiB)

virbr0 Link encap:Ethernet HWaddr 52:54:00:85:54:B5

inet addr:192.168.122.1 Bcast:192.168.122.255 Mask:255.255.255.0

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

[dan@rogue jcloud]$

\*Volumes extension

https://udaraliyanage.wordpress.com/2014/05/23/openstack-increase-volume-capacity/

[root@rogue ~]# vgs

VG #PV #LV #SN Attr VSize VFree

cinder-volumes 1 0 0 wz--n- 20.60g 20.60g

imgvg 1 1 0 wz--n- 931.51g 1.51g

vg\_rogue 1 3 0 wz--n- 465.27g 3.47g

[root@rogue ~]# vgs

VG #PV #LV #SN Attr VSize VFree

cinder-volumes 1 0 0 wz--n- 20.60g 20.60g

imgvg 1 1 0 wz--n- 931.51g 1.51g

vg\_rogue 1 3 0 wz--n- 465.27g 3.47g

[root@rogue ~]# dd if=/dev/zero of=/images/cinder-volumes bs=1 count=0 seek=100g

dd: invalid number `100g'

[root@rogue ~]# dd if=/dev/zero of=/images/cinder-volumes bs=1 count=0 seek=100G

0+0 records in

0+0 records out

0 bytes (0 B) copied, 0.000191918 s, 0.0 kB/s

[root@rogue ~]# losetup /dev/loop3 /images/cinder-volumes

losetup: /dev/loop3: device is busy

[root@rogue ~]# losetup /dev/loop4 /images/cinder-volumes

n  
p  
1  
ENTER  
ENTER  
t  
8e  
w

[root@rogue ~]# fdisk /dev/loop4

Device contains neither a valid DOS partition table, nor Sun, SGI or OSF disklabel

Building a new DOS disklabel with disk identifier 0xc6dab2b1.

Changes will remain in memory only, until you decide to write them.

After that, of course, the previous content won't be recoverable.

Warning: invalid flag 0x0000 of partition table 4 will be corrected by w(rite)

WARNING: DOS-compatible mode is deprecated. It's strongly recommended to

switch off the mode (command 'c') and change display units to

sectors (command 'u').

Command (m for help): n

Command action

e extended

p primary partition (1-4)

p

Partition number (1-4): 1

First cylinder (1-13054, default 1):

Using default value 1

Last cylinder, +cylinders or +size{K,M,G} (1-13054, default 13054):

Using default value 13054

Command (m for help): t

Selected partition 1

Hex code (type L to list codes): 8e

Changed system type of partition 1 to 8e (Linux LVM)

Command (m for help): w

The partition table has been altered!

Calling ioctl() to re-read partition table.

WARNING: Re-reading the partition table failed with error 22: Invalid argument.

The kernel still uses the old table. The new table will be used at

the next reboot or after you run partprobe(8) or kpartx(8)

Syncing disks.

[root@rogue ~]# pvcreate /dev/loop4

Physical volume "/dev/loop4" successfully created

[root@rogue ~]# vgextend /images/cinder-volumes /dev/loop4

Volume group name "/images/cinder-volumes" has invalid characters.

[root@rogue ~]# vgextend cinder-volumes /dev/loop4

Volume group "cinder-volumes" successfully extended

[root@rogue ~]# pvs

PV VG Fmt Attr PSize PFree

/dev/loop1 cinder-volumes lvm2 a-- 20.60g 20.60g

/dev/loop3 lvm2 --- 100.00g 100.00g

/dev/loop4 cinder-volumes lvm2 a-- 100.00g 100.00g

/dev/sda2 vg\_rogue lvm2 a-- 465.27g 3.47g

/dev/sdb1 imgvg lvm2 a-- 931.51g 1.51g

[root@rogue ~]# vgdisplay

--- Volume group ---

VG Name imgvg

System ID

Format lvm2

Metadata Areas 1

Metadata Sequence No 3

VG Access read/write

VG Status resizable

MAX LV 0

Cur LV 1

Open LV 1

Max PV 0

Cur PV 1

Act PV 1

VG Size 931.51 GiB

PE Size 4.00 MiB

Total PE 238466

Alloc PE / Size 238080 / 930.00 GiB

Free PE / Size 386 / 1.51 GiB

VG UUID 6LC3so-Ya01-jVMi-mYoY-AC7x-QuOH-4pLzb2

--- Volume group ---

VG Name vg\_rogue

System ID

Format lvm2

Metadata Areas 1

Metadata Sequence No 7

VG Access read/write

VG Status resizable

MAX LV 0

Cur LV 3

Open LV 3

Max PV 0

Cur PV 1

Act PV 1

VG Size 465.27 GiB

PE Size 4.00 MiB

Total PE 119109

Alloc PE / Size 118220 / 461.80 GiB

Free PE / Size 889 / 3.47 GiB

VG UUID VkaOwd-JGKK-2tNU-Yi0q-ffIK-Y2jP-JDOTk7

--- Volume group ---

VG Name cinder-volumes

System ID

Format lvm2

Metadata Areas 2

Metadata Sequence No 2

VG Access read/write

VG Status resizable

MAX LV 0

Cur LV 0

Open LV 0

Max PV 0

Cur PV 2

Act PV 2

VG Size 120.59 GiB

PE Size 4.00 MiB

Total PE 30872

Alloc PE / Size 0 / 0

Free PE / Size 30872 / 120.59 GiB

VG UUID eR0QtM-K6jI-oOY3-NOYn-90EA-cj5H-Qkegwf

[root@rogue ~]# reboot now

//////////////////////////////////////////////////////////////////

\*undo it

vgreduce --removemissing cinder-volumes

test it

sudo cinder-rootwrap /etc/cinder/rootwrap.conf env LC\_ALL=C vgs --noheadings -o name cinder-volumes

reboot

//////////////////////////////////////////////////////////////////////

Broadcast message from dan@rogue

(/dev/pts/1) at 14:33 ...

The system is going down for reboot NOW!

[root@rogue ~]#

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Uninstall/reinstall

Kill and restart dnsmasq if not running – make sure config has

log-queries

log-facility=/var/log/dnsmasq.log

Change horizon passwords

In demo set default rules

In demo add virganet

In demo add virganet to router1

In demo set virganet dns to 8.8.8.8

Preallocate 172.24.4.227-172.24.4.238

Create image

Launch image with cloudcraft

Login as cloud-user - Set up operational image

sudo su –

vi /etc/cloud/cloud.cfg – set disable 0

passwd root root root

vi /etc/resolv.conf – set 8.8.8.8

yum -y update (long time)

curl -L http://www.opscode.com/chef/install.sh | bash

yum -y install mlocate;yum -y install java-1.7.0-openjdk.x86\_64;yum -y install httpd

chkconfig –levels 345 sendmail off

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

<https://ask.openstack.org/en/question/52770/calling-http://169.254.169.254> 2009-04-04meta-datainstance-id-failed-network-is-unreachable/

[root@rogue ~]# route -n

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

172.24.4.224 0.0.0.0 255.255.255.240 U 0 0 0 br-ex

192.168.122.0 0.0.0.0 255.255.255.0 U 0 0 0 virbr0

141.112.17.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0

169.254.0.0 0.0.0.0 255.255.0.0 U 1002 0 0 eth0

169.254.0.0 0.0.0.0 255.255.0.0 U 1089 0 0 br-ex

0.0.0.0 141.112.17.254 0.0.0.0 UG 0 0 0 eth0

[root@rogue ~]# ovs-vsctl show

88d4cbae-df34-47de-b319-c6bd67a78f23

Bridge br-ex

Port br-ex

Interface br-ex

type: internal

Bridge br-int

fail\_mode: secure

Port "tapbabdf1f6-49"

tag: 2

Interface "tapbabdf1f6-49"

type: internal

Port br-int

Interface br-int

type: internal

Port "tap73b280fe-18"

tag: 1

Interface "tap73b280fe-18"

type: internal

Port patch-tun

Interface patch-tun

type: patch

options: {peer=patch-int}

Port "qvod9fa6a92-fd"

tag: 1

Interface "qvod9fa6a92-fd"

Bridge br-tun

Port br-tun

Interface br-tun

type: internal

Port patch-int

Interface patch-int

type: patch

options: {peer=patch-tun}

ovs\_version: "2.1.3"

[root@rogue ~]#

[root@rogue ~]# ip netns

qdhcp-a4076e8f-25a2-4030-bcd0-4d562f044dd0

qrouter-4d7accf3-aa57-42f1-9ed5-f12aeb13ba50

qdhcp-ef58f0ac-4d22-4bfe-a0ff-1181e206d863

ip netns exec qrouter-4d7accf3-aa57-42f1-9ed5-f12aeb13ba50 iptables -S -t nat | grep 169.254

-A neutron-l3-agent-PREROUTING -d 169.254.169.254/32 -p tcp -m tcp --dport 80 -j REDIRECT --to-ports 9697

[root@rogue ~]# ip netns exec qrouter-4d7accf3-aa57-42f1-9ed5-f12aeb13ba50 netstat -anpt

Active Internet connections (servers and established)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

tcp 0 0 0.0.0.0:9697 0.0.0.0:\* LISTEN 3525/python

ps -ef | grep 3525

root 3525 1 0 Mar13 ? 00:00:00 /usr/bin/python /usr/bin/neutron-ns-metadata-proxy --pid\_file=/var/lib/neutron/external/pids/4d7accf3-aa57-42f1-9ed5-f12aeb13ba50.pid --metadata\_proxy\_socket=/var/lib/neutron/metadata\_proxy --router\_id=4d7accf3-aa57-42f1-9ed5-f12aeb13ba50 --state\_path=/var/lib/neutron --metadata\_port=9697 --verbose --log-file=neutron-ns-metadata-proxy-4d7accf3-aa57-42f1-9ed5-f12aeb13ba50.log --log-dir=/var/log/neutron

root 16753 11340 0 09:29 pts/3 00:00:00 grep 3525

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

ci-info: | Route | Destination | Gateway | Genmask | Interface | Flags |

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

ci-info: | 0 | 191.0.1.0 | 0.0.0.0 | 255.255.255.0 | eth0 | U |

ci-info: | 1 | 0.0.0.0 | 191.0.1.1 | 0.0.0.0 | eth0 | UG |

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

I believe that ‘169.254.169.254’ is NEVER reachable .. it is something

Different at this point during boot that causes a call to it at times.

2015-03-14 12:15:13,591 - url\_helper.py[WARNING]: Calling 'http://169.254.169.254/2009-04-04/meta-data/instance-id' failed [2/120s]: unexpected error ['ConnectionError' object has no attribute 'response']

I believe that ‘169.254.169.254’ is NEVER reachable .. it is something

different at this point during boot that causes a call to it at times. Does it have to do with getting keys, completing the interface or ??

**How to get cloudinit to stop this shit??????????????????????**

‘link-local 169..’ is in /etc/networks

\*Amazon explanation ..

http://docs.aws.amazon.com/AWSEC2/2007-03-01/DeveloperGuide/AESDG-chapter-instancedata.html

“Therefore, hosts search for a DHCP server on the network before assigning link-local addresses.”

Prob just got this when could not get out ??

The EC2 datasource is the oldest and most widely used datasource that cloud-init supports. This datasource interacts with a magic ip that is provided to the instance by the cloud provider. Typically this ip is 169.254.169.254 of which at this ip a http server is provided to the instance so that the instance can make calls to get instance userdata and instance metadata.

I do not have a webserver at 169.254.169.254

* Zeroconf

Short for ***zero conf***iguration IP networking, a method of [networking](http://www.webopedia.com/TERM/N/network.html) [devices](http://www.webopedia.com/TERM/D/device.html) via an [Ethernet](http://www.webopedia.com/TERM/E/Ethernet.html) cable without requiring [configuration](http://www.webopedia.com/TERM/C/configuration.html) and administration. Zeroconf is able to allocate addresses without a [DHCP](http://www.webopedia.com/TERM/D/DHCP.html) [server](http://www.webopedia.com/TERM/S/server.html), translate between [domain names](http://www.webopedia.com/TERM/D/domain_name.html) and [IP addresses](http://www.webopedia.com/TERM/I/IP_address.html) without a [DNS](http://www.webopedia.com/TERM/D/DNS.html) server, and find services, such as a printer, without a [directory service](http://www.webopedia.com/TERM/D/directory_service.html). The technology is intended for use in small networking situations where there is a low-security need and where it is inappropriate or impossible to establish a working [IP](http://www.webopedia.com/TERM/I/IP.html) network using traditional technologies, such as DHCP and DNS. For example, Zeroconf can be used to form an ad-hoc network to connect devices in a conference or meeting; to form a network in a home or small business; to form a network in spontaneous situations.

Commented out

# Add Zeroconf route.

if [ -z "${NOZEROCONF}" -a "${ISALIAS}" = "no" -a "${REALDEVICE}" != "lo" ]; then

ip route add 169.254.0.0/16 dev ${REALDEVICE} metric $((1000 + $(cat /sys/class/net/${REALDEVICE}/ifindex))) scope link

fi

in /etc/sysconfig/network-scripts/ifup-eth

commented out

/bin/ipcalc --network $testipv4addr\_globalusable 255.255.0.0 | LC\_ALL=C grep -q "NETWORK=169\.254\.0\.0" && return 10

In /etc/sysconfig/network-scripts/network-functions-ipv6

Cleared /var/lib/cloud/instances rm \* -rf

THE ABOVE DOESN’T HELP

Try this

<http://shankerbalan.net/blog/cloud-init-supports-cloudstack-as-data-source/>

BROKEN INFORMATION

Dpr NOTE should be

ci-info: +-------+-------------+-----------+---------------+-----------+-------+

Starting cloud-init: Cloud-init v. 0.7.5 running 'modules:config' at Sat, 14 Mar 2015 17:34:41 +0000. Up 32.89 seconds.

Starting cloud-init: Cloud-init v. 0.7.5 running 'modules:final' at Sat, 14 Mar 2015 17:34:42 +0000. Up 33.66 seconds.

ci-info: ++++++++++Authorized keys from /home/centos/.ssh/authorized\_keys for user centos+++++++++++

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ci-info: | Keytype | Fingerprint (md5) | Options | Comment |

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ci-info: | ssh-rsa | 7b:39:e6:b7:39:52:f5:06:0b:b4:ac:ec:10:54:32:34 | - | Generated by Nova |

ci-info: | ssh-rsa | 2e:14:96:f4:fc:05:b0:3d:94:4a:7b:7c:41:0b:23:fa | - | Generated by Nova |

ci-info: +---------+-------------------------------------------------+---------+-------------------+

ec2:

ec2: #############################################################

ec2: -----BEGIN SSH HOST KEY FINGERPRINTS-----

ec2: 1024 49:09:53:e9:c3:4f:27:47:d4:dc:b5:cd:ec:43:de:1d /etc/ssh/ssh\_host\_dsa\_key.pub (DSA)

ec2: 2048 7d:6c:5e:66:2c:26:23:a5:5d:d3:7f:63:7e:81:a9:6a /etc/ssh/ssh\_host\_key.pub (RSA1)

ec2: 2048 5c:e9:3f:a5:c0:20:15:73:60:b6:06:b8:66:2e:0e:28 /etc/ssh/ssh\_host\_rsa\_key.pub (RSA)

ec2: -----END SSH HOST KEY FINGERPRINTS-----

ec2: #############################################################

-----BEGIN SSH HOST KEY KEYS-----

2048 35

[dan@rogue jcloud]$ ping 172.24.4.229

PING 172.24.4.229 (172.24.4.229) 56(84) bytes of data.

From 172.24.4.225 icmp\_seq=2 Destination Host Unreachable

From 172.24.4.225 icmp\_seq=3 Destination Host Unreachable

From 172.24.4.225 icmp\_seq=4 Destination Host Unreachable

2015-03-14 09:13:16.966 2991 INFO neutron.openstack.common.rpc.common [-] Reconnecting to AMQP server on 141.112.17.7:5672

2015-03-14 09:13:16.975 2991 ERROR neutron.openstack.common.rpc.common [-] AMQP server on 141.112.17.7:5672 is unreachable: [Errno 101] ENETUNREACH. Trying again in 13 seconds.

2015-03-14 09

Try setting keystonerc passwords to admin/demo again

/home/dan

export OS\_USERNAME=admin

export OS\_TENANT\_NAME=admin

export OS\_PASSWORD=admin #aa405c49534d4021

export OS\_AUTH\_URL=http://141.112.17.7:5000/v2.0/

export PS1='[\u@\h \W(keystone\_admin)]\$ '

/root

export OS\_USERNAME=demo

export OS\_TENANT\_NAME=demo

export OS\_PASSWORD=demo #94fc9dec4e684c77

export OS\_AUTH\_URL=http://141.112.17.7:5000/v2.0/

export PS1='[\u@\h \W(keystone\_demo)]\$ '

export OS\_USERNAME=admin

export OS\_TENANT\_NAME=admin

export OS\_PASSWORD=admin #aa405c49534d4021

export OS\_AUTH\_URL=http://141.112.17.7:5000/v2.0/

export PS1='[\u@\h \W(keystone\_admin)]\$ '

back it out .. no help and may have caused more problems.

With Unexpected vif\_type=binding\_failed ??

? google sometimes 169.254.169.254 unreachable

**\_\_\_http://141.112.52.224/CentOS-6-x86\_64-GenericCloud-20140929\_01.qcow2\_\_\_\_**

Create image

Load it

Connect via cloudcraft

### *Configure to fetch metadata*

*An instance must interact with the metadata service to perform several tasks on start up. For example, the instance must get the ssh public key and run the user data script. To ensure that the instance performs these tasks, use one of these methods:*

* *Install a cloud-init RPM, which is a port of the Ubuntu* [*cloud-init*](https://launchpad.net/cloud-init) *package. This is the recommended approach.*
* *Modify /etc/rc.local to fetch desired information from the metadata service, as described in the next section.*

### *Use cloud-init to fetch the public key*

*The cloud-init package automatically fetches the public key from the metadata server and places the key in an account. You can install cloud-init inside the CentOS guest by adding the EPEL repo:*

*# yum install http://download.fedoraproject.org/pub/epel/6/x86\_64/epel-release-6-8.noarch.rpm*

*# yum install cloud-init*

*The account varies by distribution. On Ubuntu-based virtual machines, the account is called ubuntu. On Fedora-based virtual machines, the account is called ec2-user.*

*You can change the name of the account used by cloud-init by editing the /etc/cloud/cloud.cfg file and adding a line with a different user. For example, to configure cloud-init to put the key in an account named admin, add this line to the configuration file:*

*user: admin*

Set root pw

yum install http://download.fedoraproject.org/pub/epel/6/x86\_64/epel-release-6-8.noarch.rpm

yum install cloud-init

make your alterations to the new cloud\_init config and the rest see page 34

### *Install the ACPI service*

*To enable the hypervisor to reboot or shutdown an instance, you must install and run the acpid service on the guest system.*

*Run the following commands inside the CentOS guest to install the ACPI service and configure it to start when the system boots:*

*# yum install acpid*

*# chkconfig acpid on*

### *Disable the zeroconf route ??????????????????????? do this or back It out??*

*For the instance to access the metadata service, you must disable the default zeroconf route:*

*# echo "NOZEROCONF=yes" >> /etc/sysconfig/network*

NOTES: DNSMASQ is stopped and yet can ping [www.google.com](http://www.google.com) !!

Wrong about needing it?

[root@specdriver1 ~]# cat /etc/sysconfig/network-scripts/ifcfg-eth0

DEVICE="eth0"

BOOTPROTO="dhcp"

IPV6INIT="yes"

MTU="1500"

NM\_CONTROLLED="yes"

ONBOOT="yes"

TYPE="Ethernet"

UUID="01b92840-38c5-4205-b8d2-62fee979e6df"

[root@specdriver1 ~]#

[root@specdriver1 ~]# cat /etc/sysconfig/network

NETWORKING=yes

HOSTNAME=specdriver1.atos.net

NOZEROCONF=yes

[root@specdriver1 ~]#

[root@specdriver1 ~]# cat /etc/resolv.conf

; generated by /sbin/dhclient-script

search openstacklocal atos.net

nameserver 8.8.8.8

[root@specdriver1 ~]#

[root@specdriver1 ~]# ifconfig

eth0 Link encap:Ethernet HWaddr FA:16:3E:54:EB:4A

inet addr:191.0.1.103 Bcast:191.0.1.255 Mask:255.255.255.0

inet6 addr: fe80::f816:3eff:fe54:eb4a/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:76225 errors:0 dropped:0 overruns:0 frame:0

TX packets:57307 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:605258780 (577.2 MiB) TX bytes:17465344 (16.6 MiB)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

[root@specdriver1 ~]# ip a

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: eth0: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether fa:16:3e:54:eb:4a brd ff:ff:ff:ff:ff:ff

inet 191.0.1.103/24 brd 191.0.1.255 scope global eth0

inet6 fe80::f816:3eff:fe54:eb4a/64 scope link

valid\_lft forever preferred\_lft forever

[root@specdriver1 ~]# cat /var/log/yum.log –run during hung/slow provision

So git took but hung up on chef execution?

NOTE .. went into files and deleted the $ from specweb files..

Restorecon had problems with ‘em .. plus rmi may need these names to match the web servers.. checkout dir.opt.tgz in the from\_tac-server

The provision became successful but at what cost?

*The $ character should be used only in mechanically generated source code or, rarely, to access pre-existing names on legacy systems*.

.

.

.specdriver

. Mar 15 04:36:14 Installed: 1:perl-Module-Pluggable-3.90-136.el6\_6.1.x86\_64

Mar 15 04:36:15 Installed: 4:perl-libs-5.10.1-136.el6\_6.1.x86\_64

Mar 15 04:36:16 Installed: 1:perl-Pod-Simple-3.13-136.el6\_6.1.x86\_64

Mar 15 04:36:17 Installed: 3:perl-version-0.77-136.el6\_6.1.x86\_64

Mar 15 04:36:22 Installed: 4:perl-5.10.1-136.el6\_6.1.x86\_64

Mar 15 04:36:22 Installed: 1:perl-Error-0.17015-4.el6.noarch

Mar 15 04:36:23 Installed: perl-Git-1.7.1-3.el6\_4.1.noarch

Mar 15 04:36:26 Installed: git-1.7.1-3.el6\_4.1.x86\_64

Dbserver

Mar 15 15:35:53 Installed: perl-Git-1.7.1-3.el6\_4.1.noarch

Mar 15 15:35:56 Installed: git-1.7.1-3.el6\_4.1.x86\_64

Mar 15 15:37:44 Installed: libudev-147-2.57.el6.x86\_64

Mar 15 15:37:45 Installed: device-mapper-1.02.90-2.el6\_6.1.x86\_64

Mar 15 15:37:46 Installed: device-mapper-libs-1.02.90-2.el6\_6.1.x86\_64

Mar 15 15:37:47 Installed: parted-2.1-25.el6.x86\_64

Mar 15 15:37:52 Installed: postgresql91-libs-9.1.13-1PGDG.rhel6.x86\_64

Mar 15 15:37:53 Installed: postgresql91-9.1.13-1PGDG.rhel6.x86\_64

Mar 15 15:37:56 Installed: postgresql91-server-9.1.13-1PGDG.rhel6.x86\_64

--stalled after this because filled up space -- /dev/vda = only 7.8g

*Creating a cqow2 image with min 20g from horizon fails.*

*Creating a raw image with min 20g from horizon fails.*

yum -y install libguestfs-tools

but virt-filesystems --long --parts --blkdevs -h -a /data/images/win2012.qcow2

*does not find vda ..*

*Tried uninstalling Openstack and resinstalling using answerfile with size = 50g*

*packstack --answer-file=/home/jcloud/packstack-answers.txt instead of –allinone*

*Worked to create a cinder-volume of 50G.*

*TODO :script to pre-allocate floating ips 227-238*

*neutron net-create roguenet --router:external=True*

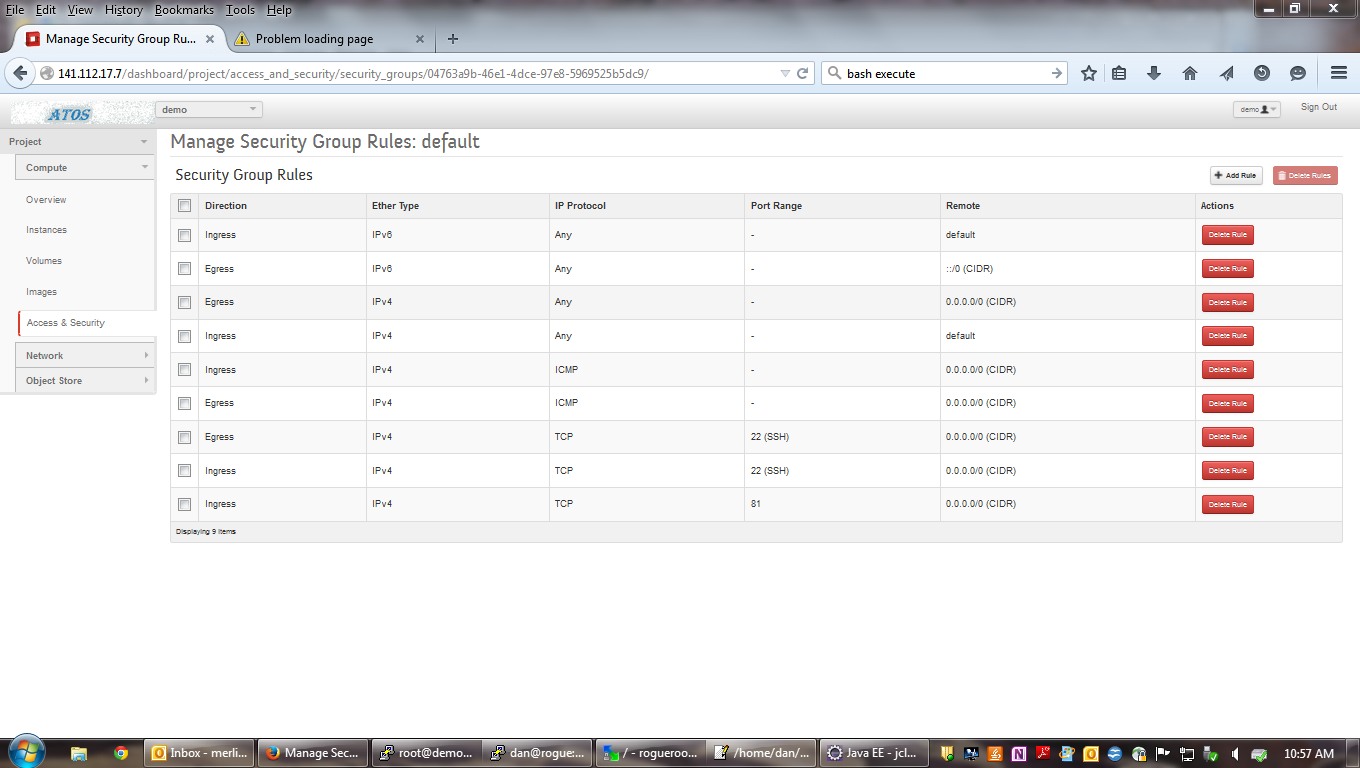
*neutron subnet-create roguenet 192.168.1.0/24 --name roguesubnet --enable\_dhcp=true --allocation\_pool start=192.168.1.57,end=192.168.1.62 --gateway 192.168.1.1*

*DO NOT allow DHCP for public net .. it might take 172.24.4.229*

*For that matter check if DHCP on virganet takes 172.24.4.225 at times?*

*\*rules*

*NOTE for httpd need port 81 ingress*



#### Security Groups

default

* ALLOW IPv4 icmp from 0.0.0.0/0
* ALLOW IPv6 from default
* ALLOW IPv4 22/tcp to 0.0.0.0/0
* ALLOW IPv6 to ::/0
* ALLOW IPv4 to 0.0.0.0/0
* ALLOW IPv4 81/tcp from 0.0.0.0/0
* ALLOW IPv4 from default
* ALLOW IPv4 icmp to 0.0.0.0/0
* ALLOW IPv4 22/tcp from 0.0.0.0/0

[*http://docs.openstack.org/user-guide/content/attach\_volume\_to\_instance.html*](http://docs.openstack.org/user-guide/content/attach_volume_to_instance.html)

nova boot --flavor 2 --image 98901246-af91-43d8-b5e6-a4506aa8f369 \

--block-device source=volume,id=d620d971-b160-4c4e-8652-2513d74e2080,dest=volume,shutdown=preserve \

myInstanceWithVolume

*[dan@rogue jcloud]$ sudo su -*

*[root@rogue ~]# source /root/keystonerc\_demo*

*[root@rogue ~(keystone\_demo)]# nova volume-list*

*+--------------------------------------+-----------+-----------------+------+-------------+-------------+*

*| ID | Status | Display Name | Size | Volume Type | Attached to |*

*+--------------------------------------+-----------+-----------------+------+-------------+-------------+*

*| 1fd03752-ab56-44b4-b3c1-49e6e495e668 | available | dbserver-volume | 3 | lvm | |*

*+--------------------------------------+-----------+-----------------+------+-------------+-------------+*

*[root@rogue ~(keystone\_demo)]# nova volume-attach b7fbb16b-d61e-4e5a-a89b-d9c14384824b 1fd03752-ab56-44b4-b3c1-49e6e495e668*

*+----------+--------------------------------------+*

*| Property | Value |*

*+----------+--------------------------------------+*

*| device | /dev/vdb |*

*| id | 1fd03752-ab56-44b4-b3c1-49e6e495e668 |*

*| serverId | b7fbb16b-d61e-4e5a-a89b-d9c14384824b |*

*| volumeId | 1fd03752-ab56-44b4-b3c1-49e6e495e668 |*

*+----------+--------------------------------------+*

*[root@rogue ~(keystone\_demo)]#*

mke2fs -j /dev/vdb

*[root@dbserver1 ~]# mv /dbstore/ /dev/vdb1*

*mv: writing `/dev/vdb1/backup/500irdbfiles.tgz': No space left on device*

*mv: writing `/dev/vdb1/log/pg\_xlog/000000010000000A000000BB': No space left on device*

*mv: writing `/dev/vdb1/log/pg\_xlog/000000010000000A000000B9': No space left on device*

*mv: writing `/dev/vdb1/log/pg\_xlog/000000010000000A000000BA': No space left on device*

*got a page with a LOT of info finally*

*OR extract in it*

mke2fs -j /dev/vdb

*[root@user-image1 ~]# mount -t ext4 /dev/vdb /mnt*

*[root@user-image1 ~]# tar -zxf /home/500irdbfiles.tgz -C /mnt*

*[root@user-image1 ~]# ls /mnt*

*dbstore lost+found var*

*[root@user-image1 ~]# ls /mnt/dbstore*

*data log*

*[root@user-image1 ~]# ls /mnt/dbstore/data/*

*base PG\_9.1\_201105231*

*[root@user-image1 ~]# ls /mnt/dbstore/data/base*

*1 12772 12780 16942*

*[root@user-image1 ~]# exit*

*java CloudCraft -i centosgp -p dbserver -z -volume bed75663-d536-4454-88b2-ba183355b7a0 -da*

\*cli cheatsheet

http://docs.openstack.org/user-guide/content/app\_cheat\_sheet.html#d6e6493

#dpr I set this true in

/etc/openstack-dashboard/local\_settings

DEBUG = True

TEMPLATE\_DEBUG = DEBUG

You're seeing this error because you have DEBUG = True in your Django settings file. Change that to False, and Django will display a standard 500 page.

Ran ‘ python /usr/share/openstack-dashboard/manage.py compress ‘ to get around an error shown in the above .. but the error came right back on refresh

Make sure openstack-nova-api is up

chmod 777 /images/var/lib/nova/tmp/nova-iptables

sudo service openstack-nova-api start

Try reboot

\*timings

Specdriver recipe list timing

- with full opt (+24)directories and no 197mb dir-opt and dir-opt extract 06:23:40-06:11:02 >12:38 ../filessize=110mb

-with app and poll removed from /opt and use/xtract dir-opt 06:41:17-06:32:33 >7:45 ../filessize=283mb

Upload/unzip time = 13 sec/173 mb

*\*use /images for stuff .. note permissions*

chmod 777 /images/var/lib/nova/tmp/nova-iptables (in case horizon wont connect)

*chmod 777 /var/lib/nova/instances/*

*[root@rogue ~]# source /root/keystonerc\_demo*

*chmod 777 /var/lib/glance/images/*

*[root@rogue ~(keystone\_demo)]# glance image-create --name centosgp --disk-format qcow2 --container-format bare --is-public true --file /images/glance/images/centosgp.qcow2*

*[root@rogue ~(keystone\_demo)]# chmod 777 /var/lib/nova/instances/*

*\*neutron setup*

***htt****p://docs.openstack.org/user-guide-admin/content/neutron\_client\_commands.html*

*[root@rogue ~(keystone\_demo)]# neutron ext-list -c alias -c name*

*[root@rogue ~(keystone\_demo)]# neutron net-create virganet*

*[root@rogue ~(keystone\_demo)]# neutron subnet-create virganet 191.0.1.0/24 --name virgasubnet --allocation-pool start=191.0.1.100,end=191.0.1.120 --dns-nameserver 8.8.8.8*

*Created a new subnet:*

*[root@rogue ~(keystone\_demo)]# neutron router-interface-add router1 virgasubnet*

*Added interface 3a21f233-dc99-4f54-a9ba-2e6c709e04f2 to router router1.*

*\*security groups*

[*http://docs.openstack.org/openstack-ops/content/security\_groups.html*](http://docs.openstack.org/openstack-ops/content/security_groups.html)

*nova secgroup-list*

*nova secgroup-add-rule default tcp 443 443 0.0.0.0/0*

*\*cinder*

*[root@rogue ~(keystone\_demo)]# cinder create --display-name db-volume 8*

*+---------------------+--------------------------------------+*

*| Property | Value |*

*+---------------------+--------------------------------------+*

*| attachments | [] |*

*| availability\_zone | nova |*

*| bootable | false |*

*| created\_at | 2015-03-22T20:32:56.189617 |*

*| display\_description | None |*

*| display\_name | db-volume |*

*| encrypted | False |*

*| id | 3acbd9b0-ffe3-4cc9-80d1-b045a2d65d5b |*

*| metadata | {} |*

*| size | 8 |*

*| snapshot\_id | None |*

*| source\_volid | None |*

*| status | creating |*

*| volume\_type | None |*

*+---------------------+--------------------------------------+*

### Block Storage Creation Failures

If a user tries to create a volume and the volume immediately goes into an error state, the best way to troubleshoot is to grep the cinder log files for the volume's UUID. First try the log files on the cloud controller, and then try the storage node where the volume was attempted to be created:

# grep *3acbd9b0-ffe3-4cc9-80d1-b045a2d65d5b* /var/log/cinder/\*.log

DO NOT exceed the available capacity of the root system when allocating

in the answerfile during openstack installation??

\*got the 169.254 again

\*saw masquerade all – 172.24.4.224/28 0.0.0.0/0 in merlin iptables

So performed this on rogue but didn’t help 169 problem.

iptables -t nat -A POSTROUTING -p all -s 172.24.4.224/28 -j MASQUERADE

Is ipv6 egress available in the default rules? Noticed did not have it

Until rebuilt yet again ..

\*volume creation .. shows attaching then doesn’t.

Deleted the volumes created in script and recreated.

\*volume cli

http://docs.openstack.org/cli-reference/content/cinderclient\_commands.html#cinderclient\_command\_usage

mysql -u root --password=root

mysql> use cinder

*mysql> select \* FROM volumes where instance\_uuid IS NOT NULL;*

*+---------------------+---------------------+------------+---------+--------------------------------------+--------+----------------------------------+----------------------------------+-------+------+-------------------+--------------------------------------+------------+----------------------------+--------+---------------+---------------------+---------------------+---------------+-----------------+---------------------+---------------------------------------------------------------------------------------------+------------------------------------------------+-------------+----------------+--------------+----------+---------------+-------------------+----------+-------------------+------------------+*

*| created\_at | updated\_at | deleted\_at | deleted | id | ec2\_id | user\_id | project\_id | host | size | availability\_zone | instance\_uuid | mountpoint | attach\_time | status | attach\_status | scheduled\_at | launched\_at | terminated\_at | display\_name | display\_description | provider\_location | provider\_auth | snapshot\_id | volume\_type\_id | source\_volid | bootable | attached\_host | provider\_geometry | \_name\_id | encryption\_key\_id | migration\_status |*

*+---------------------+---------------------+------------+---------+--------------------------------------+--------+----------------------------------+----------------------------------+-------+------+-------------------+--------------------------------------+------------+----------------------------+--------+---------------+---------------------+---------------------+---------------+-----------------+---------------------+---------------------------------------------------------------------------------------------+------------------------------------------------+-------------+----------------+--------------+----------+---------------+-------------------+----------+-------------------+------------------+*

*| 2015-03-27 20:48:16 | 2015-03-30 22:12:49 | NULL | 0 | a39b3292-f3a4-4526-8684-54ca2011ceb6 | NULL | c112adbd1fb2426c8f07ba9d78a4db17 | 559fb312152e461fa02c117a7af9de9b | rogue | 8 | nova | 91bb1e50-4a3f-4d1a-b543-8180c56f318c | /dev/vdb | 2015-03-30T22:12:48.962079 | in-use | attached | 2015-03-27 20:48:16 | 2015-03-27 20:48:17 | NULL | dbserver-volume | NULL | 141.112.17.7:3260,1 iqn.2010-10.org.openstack:volume-a39b3292-f3a4-4526-8684-54ca2011ceb6 1 | CHAP 2yVo7PsMWEfx5iWjeC3D rSEmniMyqDJQtZJ78nyd | NULL | NULL | NULL | 0 | NULL | NULL | NULL | NULL | NULL |*

*+---------------------+---------------------+------------+---------+--------------------------------------+--------+----------------------------------+----------------------------------+-------+------+-------------------+--------------------------------------+------------+----------------------------+--------+---------------+---------------------+---------------------+---------------+-----------------+---------------------+---------------------------------------------------------------------------------------------+------------------------------------------------+-------------+----------------+--------------+----------+---------------+-------------------+----------+-------------------+------------------+*

*1 row in set (0.00 sec)*

*\*specvirt debug*

cd /opt/SPECvirt;java -jar specvirt.jar -l &

*\*infraserver*

1. Compile the FastCGI source code.  The source tree is uded on a BeSim (or full) installation of SPECweb2005. Here are steps to compile it:

cd *<path\_to\_SPECweb2005>*/besim/fcgi-2.4.0/

./configure **--libdir=/lib**

make

make install

**NOTE:** --libdir=/lib was added above due to the default FastCGI Makefile installing libraries to /usr/local/lib, which is not a default library path on Linux and could cause this error upon execution of the FastCGI:

besim\_fcgi.fcgi: error while loading shared libraries: libfcgi.so.0: cannot open shared object file: No such file or directory

**NOTE #2:** For x86\_64 versions of Fedora Core 3 and 4, it was observed that --libdir=/lib64 should be specified instead of /lib

cd /opt/SPECvirt;java -jar specvirt.jar -l &

*[root@specclient1 ~]# cat /logs/20150403-091024/prime-specclient1\_1096.log*

*2015-04-03 09:14:57:758 Looking up SPECvirt controller: specdriver*

*2015-04-03 09:14:58:048 masterID: 1, tile: 0, workload: 1*

*2015-04-03 09:14:58:049 hostname: specclient1*

*2015-04-03 09:14:58:928 Fri Apr 03 09:14:58 EDT 2015*

*2015-04-03 09:14:58:996 RMI server started: specclient1:9901*

*2015-04-03 09:14:59:029 SpecwebControl: \*\*\*\* SPECweb2005 benchmark started*

*2015-04-03 09:14:59:031 SpecwebControl: \* Running SPECweb\_Support workload*

*2015-04-03 09:14:59:041 Configuration: Clearing workload.*

*2015-04-03 09:14:59:053 RemoteLoadGen: Total clients: 1*

*2015-04-03 09:14:59:191 HttpRequestSched: [ERROR] Valid SERVER\_TIME value not provided in header.*

*2015-04-03 09:14:59:191 HttpRequestSched: [ERROR] Response was:*

*HTTP/1.1 200 OK*

*Date: Fri, 03 Apr 2015 13:14:59 GMT*

*Server: Apache/2.2.15 (CentOS)*

*X-Powered-By: PHP/5.3.3*

*Content-Length: 139*

*Content-Type: text/html; charset=UTF-8*

*<html>*

*<head>*

*<title>SPECweb2005 Support Workload Init</title>*

*</head>*

*<body>*

*Svdbg1:Error: Could not write to init\_vars.php*

*</body>*

*</html>*

*2015-04-03 09:14:59:191 SPECweb\_Support: [ERROR] Error! setServerDate() failed.*

*[Fri Apr 03 11:26:48 2015] [warn] FastCGI: server "/var/www/fcgi-bin/besim\_fcgi.fcgi" restarted (pid 6336)*

*/var/www/fcgi-bin/besim\_fcgi.fcgi: error while loading shared libraries: libfcgi.so.0: cannot open shared object file: No such file or directory*

*[Fri Apr 03 11:26:48 2015] [warn] FastCGI: server "/var/www/fcgi-bin/besim\_fcgi.fcgi" (pid 6336) terminated by calling exit with status '127'*

**: How can I test whether I've compiled and installed BeSim correctly?**

A: The test\_besim\_bank, test\_besim\_ecom, and test\_besim\_support scripts (included in the BeSim directory) good ways to test whether you're getting valid BeSim responses. Invoke these scripts with the URL to your compiled BeSim API, i.e.

perl test\_besim\_bank.pl http://192.2.1.132:81/fcgi-bin/besim\_fcgi.fcgi  
bash test\_besim\_bank.sh http://bsim614:81/fcgi-bin/besim\_fcgi.fcgi

*\*Infraserver test script*

/opt/SPECweb2005/Besim/test\_besim\_support.sh <http://besim:81/fcgi-bin/besim_fcgi.fcgi>

ON remote firfefox put in

http://172.24.4.228:81/fcgi-bin/besim\_fcgi.fcgi?3&8&12345

‘cat /var/log/httpd/error\_log ‘

breakthru

Found ‘..fcgi.so’ not loaded in error\_log .. copied from specweb to

/usr/lib64, ls –s , and LDCONFIG

[Fri Apr 03 17:44:53 2015] [error] [client 191.0.1.112] FastCGI: comm with server "/var/www/fcgi-bin/besim\_fcgi.fcgi" aborted: idle timeout (30 sec)

[Fri Apr 03 17:44:53 2015] [error] [client 191.0.1.112] FastCGI: incomplete headers (0 bytes) received from server "/var/www/fcgi-bin/besim\_fcgi.fcgi"

Added java , and shared dir via magic\_shell

\*Webserver

Changed pollme top use ‘hostname’ why was it appserver?

Removed the specPoll dir I found in files .. doesn’t the diropt zip contain that?