Cloud Application Development

Lab: CLI Neutron

Name: - Nilesh Verma

SAP Id.: - 500087239

Batch: - B4 Non-Hons CC&VT

Roll No.: - R2142201812

Neutron Commands

```
options: {peer=phy-br-ex}
Port "tapf64c33Bc-Ze"
                 Interface "tapf64c338c-Ze"
          type: internal
Port "qg-5821ac28-0d"
tag: 4
                Interface "qg-5821ae28-8d"
type: internal
          cupe br-ex
Controller "tcp:127.0.0.1:6633"
is_connected: true
          fail_mode: secure
datapath_type: system
Port "enp0s3"
                Interface "enp0s3"
          Port br-ex
Interface br-ex
          type: internal

Port phy-br-ex

Interface phy-br-ex

type: patch

options: {peer=int-br-ex}
    Bridge br-tun
          Controller "tcp:127.0.0.1:6633"
                is_connected: true
          fail_mode: secure
          datapath_type: system
          Port br-tun
                Interface br-tun
                    type: internal
          Port patch-int
                Interface patch-int
type: patch
                     options: {peer=patch-tun}: "Z.1Z.8"
ovs_version: "2.12.0"
[root@localhost "(keystone_admin)]#
```

```
provider-segment <provider-segment>
                                   ULAN ID for ULAN networks or Tunnel ID for
GENEUE/GRE/UXLAN networks
   --dns-domain <dns-domain>
                                   Set DNS domain for this network (requires DNS
                                   integration extension)
Tag to be added to the network (repeat option to set multiple tags)
No tags associated with the network
   --tag <tag>
   --no-tag
output formatters:
  output formatter options
   -f (json,shell,table,value,yaml), --format (json,shell,table,value,yaml)
the output format, defaults to table
   -c COLUMN, --column COLUMN
                                   specify the column(s) to include, can be repeated
table formatter:
   --max-width <integer>
                                   Maximum display width, <1 to disable. You can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the
                                   parameter takes precedence.

Fit the table to the display width. Implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable Print empty table if there is no data to show.
   --fit-width
   --print-empty
json formatter:
    -noindent
                                   whether to disable indenting the JSON
shell formatter:
  a format a UNIX shell can parse (variable="value")
--prefix PREFIX add a prefix
[root@localhost ~(keystone_admin)]# _
                                   add a prefix to all variable names
```

```
! cloud='', project.domain_id=, project.domain_name=, project.id='a6837
project.name=, region_name='RegionOne', zone= !
784a14dd1af56f2bcd5c293a4'
                              intnet
 name
 port_security_enabled
                              True
                              i a6837c2784a14dd1af56f2bed5c293a4
 project_id
 provider:network_type
                              : vxlan
 provider:physical_network : None
 provider:segmentation_id | 11
 qos_policy_id
                              None
 revision_number
 router:external
                              : Internal
 segments
                              1 None
 shared
                              : False
 status
                              : ACTIVE
 subnets
 tags
 updated_at
                              : 2023-04-22T18:08:03Z
[root@localhost "(keystone_admin)]#
```

Fig 6 (output image)

```
[root@localhost "(keystone_admin)]# ip netns exec qrouter-7cc44dd1-fd89-4a93-bf79-f1e2dc5b738a ping
5.5.5.1
connect: Network is unreachable
[root@localhost "(keystone_admin)]#
```

```
[root@localhost ~(keystone_admin)]# neutron router-gateway-set R2 external_network
neutron CLI is deprecated and will be removed in the future. Use openstack CLI instead.
Set gateway for router R2
[root@localhost ~(keystone_admin)]# _
```

```
[root@localhost "(keystone_admin)]# openstack server create --image cirros --flavor 1 --nic net-id=
1ac4034-c620-4f9b-a7af-3733a5afbb0d inst1
l Field
                                         ! Value
OS-DCF:diskConfig
                                         ! MANUAL
OS-EXT-AZ:availability_zone
| OS-EXT-SRU-ATTR:host
                                          None
| OS-EXT-SRU-ATTR:hypervisor_hostname |
                                          None
 OS-EXT-SRU-ATTR: instance_name
 OS-EXT-STS:power_state
OS-EXT-STS:task_state
OS-EXT-STS:vm_state
                                          NOSTATE
                                         | scheduling
                                         building
OS-SRU-USG: launched_at
OS-SRU-USG: terminated_at
                                          None
                                         : None
 access IPv4
 access IPv6
 addresses
 adminPass
                                          vyC87hBEaytd
 config_drive
                                           2023-04-22T18:28:36Z
created
1 flavor
                                          m1.tiny (1)
: hostId
                                          bc4a5120-00d8-4b59-8811-ad90bc5f6c1b
 id
                                          cirros (415e11f1-3819-4986-a42e-d2d402c60e7f)
  image
 key_name
                                          None
                                          inst1
 name
 progress
 project_id
                                          cd18aa9de06a4e0e88635a0f6fe9d987
 properties
 security_groups
                                          name='default'
                                          BUILD
! status
                                          2023-04-22T18:28:37Z
 updated
                                          9ca7b68be5f84c89ba0d7f01b55bee03
 user_id
| volumes_attached
[root@localhost "(keystone_admin)]#
```

```
| Incorporation | Image | Incorporation | Image | Incorporation | Incorporatio
```

```
ID
                                            ! Name
                                                       : Description
                                                                                   ! Project
          i Tags i
; 4c41bfd6-375d-4d5d-84c0-5f7f9799db17 ; default ; Default security group ; cd18aa9de06a4e0e88635a0f
6fe9d987 | []
: 82734ba9-7f86-4ba9-96ac-d532cd8180ea | default | Default security group | 487ce2e340764844b4790e32
61d87e1c | []
; cd1fed79-4892-4600-a8e1-e4b4eaef14ad ; default ; Default security group ; a6837c2784a14dd1af56f2be
d5c293a4 | []
[root@localhost "(keystone_admin)]# openstack security group rule create --src-ip 0.0.0.0/0 --protoc
ol icmp --ingress cd1fed79-4892-4600-a8e1-e4b4eaef14ad
usage: openstack security group rule create [-h]
[-f {json,shell,table,value,yaml}]
                                                 [-c COLUMN]
                                                 [--max-width <integer>]
                                                 [--fit-width] [--print-cmpty]
[--noindent] [--prefix PREFIX]
                                                 [--remote-ip <ip-address> ! --remote-group <group>]
[--description <description>]
                                                  [--dst-port <port-range>]
                                                 [--icmp-type <icmp-type>]
[--icmp-code <icmp-code>]
                                                 [--protocol <protocol>]
[--ingress | --egress]
                                                 [--ethertype <ethertype>]
                                                 [--project <project>]
                                                 [--project-domain <project-domain>]
                                                  (group)
openstack security group rule create: error: unrecognized arguments: --src-ip cd1fed?9-4892-4600-a8e
1-e4b4eacf 14ad
[root@localhost "(keystone_admin)]# _
```

```
[root@localhost "(keystone_admin)]# ip netns
qrouter-7cc44dd1-fd89-4a93-bf79-f1e2dc5b738a (id: 4)
qdhcp-31ae4034-c620-4f9b-a7af-3733a5afbb0d (id: 3)
qrouter-5b0d206c-9223-400b-a595-dd21fb00911b (id: 2)
qdhcp-2dd49ba0-9fe7-4013-b6ce-56afd4918096 (id: 1)
qdhcp-6fabb1e4-f136-4f3d-bac8-827812db943c (id: 0)
[root@localhost "(keystone_admin)]# ip netns exec qrouter-7cc44dd1-fd89-4a93-bf79-f1e2dc5b738a ssh c
irros@10.5.5.1
ssh: connect to host 10.5.5.1 port 22: Connection refused
[root@localhost "(keystone_admin)]# _
```

```
root@localhost "(keystone_admin)|# pinf 10.0.0.247
bash: pinf: command not found
root@localhost "(keystone_admin)|# ping 10.0.247
ING 10.0.247 (10.0.0.247) 56(84) bytes of data.
```

```
| Name | Network | Subnet | Su
```

```
[root@localhost "(keystone_admin)]# openstack subnet list
i ID
                                                        i Name
| 18e5742f-1781-4a24-a692-fdbf72589817 | mysub
                                                                      i 6fabb1e4-f136-4f3d-bac8-827812db943c i 10.0.0.0/2
  4f326dcc-f8fa-4afa-bf86-b4e93d7222db; subnet1; 31ae4834-c620-4f9b-a7af-3733a5afbb8d; 18.5.5.8/
i dc785286-71c2-4789-a14b-b5f771eebf2a i mysub - i 2dd49ba8-9fe7-4813-b6ce-56afd4918896 i 14.8.8.8/3
4
[root@localhost "(keystone_admin)]# openstack Froateng ...
e93d7222db --floating-ip-address 192.168.0.118
usage: openstack floating ip create [-h] [-f {json,shell,table,value,yaml}]
[-c COLUMN] [--max-width {integer}]
[-c COLUMN] [--mrint-empty] [--noinder
[root@localhost "(keystone_admin)]# openstack floating ip create --subnet 4f326dcc-f8fa-4afa-bf86-b
                                                    [--fit-width] [--print-empty] [--noindent]
[--prefix PREFIX] [--subnet <subnet>]
                                                    [--port <port>]
[--floating-ip-address <ip-address>]
[--fixed-ip-address <ip-address>]
                                                    [--qos-policy <qos-policy>]
[--description <description>]
                                                    [--project <project>]
[--dns-domain <dns-domain>]
                                                    [--dns-name <dns-name>]
                                                    [--project-domain <project-domain>]
                                                    [--tag <tag> | --no-tag]
                                                    <network>
openstack floating ip create: error: too few arguments
[root@localhost ~(keystone_admin)]# clear
```

```
[root@localhost "(keystone_admin)]# openstack ip availability list --project poc
 Network ID
                                               ! Network Name ! Total IPs ! Used IPs !
                                                                                          2 :
 31ae4034-c620-4f9b-a7af-3733a5afbb0d | intnet
                                                                          253 |
[root@localhost "(keystone_admin)]#
                                  l network flavor profile create
                                  i network flavor profile delete
i network flavor profile list
                                  i network flavor profile set
i network flavor profile show
                                  i network flavor remove profile
i network flavor set
                                  i network flavor show
                                  i network list
                                  i network meter create
                                  l network meter delete
                                  I network meter list
                                  i network meter rule create
                                  i network meter rule delete
i network meter rule list
                                  i network meter rule show
                                  ! network meter show
                                  i network gos policy create
                                  l network dos policy delete
                                  i network gos policy list
                                  I network gos policy set
                                  i network gos policy show
i network gos rule create
                                  i network gos rule delete
i network gos rule list
                                  i network gos rule set
                                  l network gos rule show
                                  i network dos rule type list
                                  l network dos rule type show
                                  i network rbac create
                                  l network rbac delete
l network rbac list
                                  l network rbac set
                                  i network rbac show
I network segment create
                                  i network segment delete
root@localhost "(keystone_admin)1#
```