kolla-ansible Network QoS

configuration

globals.yml

```
enable_neutron_qos: "yes"
```

ml2_conf.ini extension_drivers qos

```
[ml2]
extension_drivers = port_security,qos
```

／   .

QoS

QoS   .

```
$ openstack network qos policy list
```

.

myproject bw-limiter   QoS   .

```
openstack network qos policy create --share --project myproject bw-limiter
```

.   50000 kbps   bw-limiter
QoS   . ingress egress In/Out
.

```
$ openstack network qos rule create --type bandwidth-limit \
--max-kbps 50000 --max-burst-kbits 50000 --ingress bw-limiter

$ openstack network qos rule create --type bandwidth-limit \
--max-kbps 50000 --max-burst-kbits 50000 --egress bw-limiter
```

QoS   ／   Horizon   .

Horizon
. 2024-01-12 (Zed)

.

```
$ openstack port create --qos-policy bw-limiter --network vmnet0 port2
```

.

```
$ openstack port set --qos-policy bw-limiter port1
```

```
$ openstack network qos policy show bw-limiter

+-----------------+-------------------------------------------------------------+
| Field           | Value                                                       |
+-----------------+-------------------------------------------------------------+
| description     |                                                             |
| id              | 8491547e-add1-4c6c-a50e-42121237256c                        |
| is_default      | False                                                       |
| name            | bw-limiter                                                  |
| project_id      | 98a2f53c20ce4d50a40dac4a38016c69                            |
| revision_number | 4                                                           |
| rules           | [{u'max_kbps': 50000, u'direction': u'egress',              |
|                 |    u'type': u'bandwidth_limit',                             |
|                 |    u'id': u'0db48906-a762-4d32-8694-3f65214c34a6',          |
|                 |    u'max_burst_kbps': 50000,                                |
|                 |    u'qos_policy_id': u'8491547e-add1-4c6c-                  |
| a50e-42121237256c'},     |                                                    |
|                 | [{u'max_kbps': 50000, u'direction': u'ingress',             |
```

```
|                              |      u'type': u'bandwidth_limit',
|
|                              |      u'id': u'faabef24-e23a-4fdf-8e92-f8cb66998834',
|
|                              |      u'max_burst_kbps': 50000,
|
|                              |      u'qos_policy_id': u'8491547e-add1-4c6c-
a50e-42121237256c'}]     |
| shared               | False
|
+------------------+----------------------------------------------------
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```

```
$ openstack port show port1

+------------------------+----------------------------------------------
------------------+
| Field                  | Value
|
+------------------------+----------------------------------------------
------------------+
| admin_state_up         | UP
|
| allowed_address_pairs  | ip_address='192.0.2.128',
mac_address='fa:16:3e:e1:eb:73'            |
| binding_host_id        | compute-2.redhat.local
|
| binding_profile        |
|
| binding_vif_details    | port_filter='True'
|
| binding_vif_type       | ovs
|
| binding_vnic_type      | normal
|
| created_at             | 2022-07-04T19:07:56
|
| data_plane_status      | None
|
| description            |
|
| device_id              | 53abd2c4-955d-4b44-b6ad-f106e3f15df0
|
| device_owner           | compute:nova
|
| dns_assignment         | fqdn='host-192-0-2-213.openstacklocal.',
hostname='my-host3',   |
|                        | ip_address='192.0.2.213'
```

```
|                        |
| dns_domain             | None
|                        |
| dns_name               |
|                        |
| extra_dhcp_opts        |
|                        |
| fixed_ips              | ip_address='192.0.2..213',
  subnet_id='641d1db2-3b40-437b-b87b-63   |
|                        | 079a7063ca'
|                        |
|                        |
  ip_address='2001:db8:0:f868:f816:3eff:fee1:eb73', subnet_id='c7ed0 |
|                        | 70a-d2ee-4380-baab-6978932a7dcc'
|                        |
| id                     | 56x9aiw1-2v74-144x-c2q8-ed8w423a6s12
|                        |
| location               | cloud='', project.domain_id=,
  project.domain_name=, project.id='7c |
|                        | b99d752fdb4944a2208ec9ee019226', project.name=,
  region_name='regio |
|                        | nOne', zone=
|                        |
| mac_address            | fa:16:3e:e1:eb:73
|                        |
| name                   | port2
|                        |
| network_id             | 55dc2f70-0f92-4002-b343-ca34277b0234
|                        |
| port_security_enabled  | True
|                        |
| project_id             | 98a2f53c20ce4d50a40dac4a38016c69
|                        |
| propagate_uplink_status | None
|                        |
| qos_policy_id          | 8491547e-add1-4c6c-a50e-42121237256c
|                        |
| resource_request       | None
|                        |
| revision_number        | 6
|                        |
| security_group_ids     | 4cdeb836-b5fd-441e-bd01-498d758704fd
|                        |
| status                 | ACTIVE
|                        |
| tags                   |
|                        |
| trunk_details          | None
|                        |
```

```
| updated_at               | 2022-07-04T19:11:41Z
|
+-------------------------+---------------------------------------------------
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```

- https://docs.openstack.org/neutron/latest/configuration/ml2-conf.html
- https://access.redhat.com/documentation/ko-kr/red_hat_openstack_platform/16.1/html/networking_guide/bandwidth-limit_config-qos-policies