BUGs faced during openstacj-juno SRIOV workaround.

MariaDB [nova]> select hypervisor\_hostname,pci\_stats from compute\_nodes;

+---------------------+-------------------------------------------------------------------------------------------+

| hypervisor\_hostname | pci\_stats |

+---------------------+-------------------------------------------------------------------------------------------+

| compute2 | [] |

| xilinx-r720 | [{"count": 1, "vendor\_id": "8086", "physical\_network": "physnet1", "product\_id": "10ed"}] |

| compute1 | [] |

| compute4 | [{"count": 1, "vendor\_id": "8086", "physical\_network": "physnet1", "product\_id": "10ed"}] |

+---------------------+-------------------------------------------------------------------------------------------+

1. During network delete ERROR in

#/usr/bin/python /usr/bin/neutron-sriov-nic-agent --config-file /etc/neutron/neutron.conf --config-file /etc/neutron/plugins/ml2/ml2\_conf.ini --config-file /etc/neutron/plugins/ml2/ml2\_conf\_sriov.ini

OR in neutron-sriov-nic-agent

2014-12-04 13:09:41.698 920 ERROR oslo.messaging.rpc.dispatcher [-] Exception during message handling: Endpoint does not support RPC method network\_delete

2. nova-compute.log

Giving right ADIT info

2014-12-04 13:15:12.089 4580 AUDIT nova.compute.resource\_tracker [-] PCI stats: [{"count": 1, "vendor\_id": "8086", "physical\_network": "physnet1", "product\_id": "10ed"}]

3. Generating PCI-request failed BUG .

root@controller:~#source admin-openrc.sh

root@controller:~# neutron net-create SRIOV\_VF\_NET --provider:physical\_network physnet1 --provider:network\_type vlan --shared

Created a new network:

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | 2cb7d304-9d31-4e28-b6ea-24f9abda99c1 |

| name | SRIOV\_VF\_NET |

| provider:network\_type | vlan |

| provider:physical\_network | physnet1 |

| provider:segmentation\_id | 3 |

| router:external | False |

| shared | True |

| status | ACTIVE |

| subnets | |

| tenant\_id | 8b8a2a23ccab4fe5b481ce264fe55091 |

|  |  |
| --- | --- |

root@controller:~# neutron subnet-create SRIOV\_VF\_NET --name subnet\_SRIOV\_VF 55.1.0.0/24

Created a new subnet:

+-------------------+--------------------------------------------+

| Field | Value |

+-------------------+--------------------------------------------+

| allocation\_pools | {"start": "55.1.0.2", "end": "55.1.0.254"} |

| cidr | 55.1.0.0/24 |

| dns\_nameservers | |

| enable\_dhcp | True |

| gateway\_ip | 55.1.0.1 |

| host\_routes | |

| id | 5afa6b95-375b-4b62-a4c1-25a38ce86813 |

| ip\_version | 4 |

| ipv6\_address\_mode | |

| ipv6\_ra\_mode | |

| name | subnet\_SRIOV\_VF |

| network\_id | 2cb7d304-9d31-4e28-b6ea-24f9abda99c1 |

| tenant\_id | 8b8a2a23ccab4fe5b481ce264fe55091 |

|  |  |
| --- | --- |

root@controller:~# source vinod-openrc.sh //JUST AS demo TENANT/user

root@controller:~# neutron port-create SRIOV\_VF\_NET --name direct\_port\_SRIOV\_VF --binding:vnic-type direct

Created a new port:

+-----------------------+---------------------------------------------------------------------------------+

| Field | Value |

+-----------------------+---------------------------------------------------------------------------------+

| admin\_state\_up | True |

| allowed\_address\_pairs | |

| binding:vnic\_type | direct |

| device\_id | |

| device\_owner | |

| fixed\_ips | {"subnet\_id": "5afa6b95-375b-4b62-a4c1-25a38ce86813", "ip\_address": "55.1.0.2"} |

| id | 3239a611-c267-4687-95c7-07c0e5778dfe |

| mac\_address | fa:16:3e:74:b5:8c |

| name | direct\_port\_SRIOV\_VF |

| network\_id | 2cb7d304-9d31-4e28-b6ea-24f9abda99c1 |

| security\_groups | 5ad97933-8a0b-402a-8bdb-5443f70abf12 |

| status | DOWN |

| tenant\_id | 821e588f61e645c2866f062930e07777 |

+-----------------------+---------------------------------------------------------------------------------+

root@controller:~# nova boot --flavor 2 --image cirros-0.3.3-x86\_64 --nic port-id=3239a611-c267-4687-95c7-07c0e5778dfe --availability-zone nova:compute4 IBM\_1

+--------------------------------------+------------------------------------------------------------+

| Property | Value |

+--------------------------------------+------------------------------------------------------------+

| OS-DCF:diskConfig | MANUAL |

| OS-EXT-AZ:availability\_zone | nova |

| OS-EXT-STS:power\_state | 0 |

| OS-EXT-STS:task\_state | scheduling |

| OS-EXT-STS:vm\_state | building |

| OS-SRV-USG:launched\_at | - |

| OS-SRV-USG:terminated\_at | - |

| accessIPv4 | |

| accessIPv6 | |

| adminPass | X4yGmES4gXms |

| config\_drive | |

| created | 2014-12-04T07:56:59Z |

| flavor | m1.small (2) |

| hostId | |

| id | 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73 |

| image | cirros-0.3.3-x86\_64 (09ae832d-927e-4f72-be70-2f77886d5454) |

| key\_name | - |

| metadata | {} |

| name | IBM\_1 |

| os-extended-volumes:volumes\_attached | [] |

| progress | 0 |

| security\_groups | default |

| status | BUILD |

| tenant\_id | 821e588f61e645c2866f062930e07777 |

| updated | 2014-12-04T07:56:59Z |

| user\_id | 265f9035f3a547ac8f65fc5712d68bc3 |

+--------------------------------------+------------------------------------------------------------+

root@controller:~# nova show IBM\_1

| fault | {"message": "Build of instance 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73 was re-scheduled: Unexpected vif\_type=binding\_failed", "code": 500, "created": "2014-12-04T07:57:01Z"} |

IN COMPUTE4 nova-compute log.

2014-12-04 13:25:19.731 4580 AUDIT nova.compute.resource\_tracker [-] Auditing locally available compute resources

2014-12-04 13:25:20.086 4580 AUDIT nova.compute.resource\_tracker [-] Total physical ram (MB): 32211, total allocated virtual ram (MB): 2560

2014-12-04 13:25:20.087 4580 AUDIT nova.compute.resource\_tracker [-] Free disk (GB): 863

2014-12-04 13:25:20.087 4580 AUDIT nova.compute.resource\_tracker [-] Total usable vcpus: 12, total allocated vcpus: 1

2014-12-04 13:25:20.087 4580 AUDIT nova.compute.resource\_tracker [-] PCI stats: [{"count": 1, "vendor\_id": "8086", "physical\_network": "physnet1", "product\_id": "10ed"}]

2014-12-04 13:25:20.087 4580 INFO nova.compute.resource\_tracker [-] Compute\_service record updated for compute4:compute4

2014-12-04 13:26:20.731 4580 AUDIT nova.compute.resource\_tracker [-] Auditing locally available compute resources

2014-12-04 13:26:21.094 4580 AUDIT nova.compute.resource\_tracker [-] Total physical ram (MB): 32211, total allocated virtual ram (MB): 2560

2014-12-04 13:26:21.094 4580 AUDIT nova.compute.resource\_tracker [-] Free disk (GB): 863

2014-12-04 13:26:21.094 4580 AUDIT nova.compute.resource\_tracker [-] Total usable vcpus: 12, total allocated vcpus: 1

2014-12-04 13:26:21.095 4580 AUDIT nova.compute.resource\_tracker [-] PCI stats: [{"count": 1, "vendor\_id": "8086", "physical\_network": "physnet1", "product\_id": "10ed"}]

2014-12-04 13:26:21.095 4580 INFO nova.compute.resource\_tracker [-] Compute\_service record updated for compute4:compute4

2014-12-04 13:26:59.934 4580 AUDIT nova.compute.manager [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Starting instance...

2014-12-04 13:27:00.002 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Attempting claim: memory 2048 MB, disk 20 GB

2014-12-04 13:27:00.003 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Total memory: 32211 MB, used: 2560.00 MB

2014-12-04 13:27:00.003 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] memory limit not specified, defaulting to unlimited

2014-12-04 13:27:00.004 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Total disk: 883 GB, used: 20.00 GB

2014-12-04 13:27:00.004 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] disk limit not specified, defaulting to unlimited

2014-12-04 13:27:00.024 4580 AUDIT nova.compute.claims [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Claim successful

2014-12-04 13:27:00.174 4580 INFO nova.scheduler.client.report [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] Compute\_service record updated for ('compute4', 'compute4')

2014-12-04 13:27:00.308 4580 INFO nova.scheduler.client.report [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] Compute\_service record updated for ('compute4', 'compute4')

2014-12-04 13:27:00.602 4580 INFO nova.virt.libvirt.driver [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Creating image

2014-12-04 13:27:00.682 4580 INFO nova.virt.disk.vfs.api [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] Unable to import guestfsfalling back to VFSLocalFS

2014-12-04 13:27:00.858 4580 INFO nova.scheduler.client.report [-] Compute\_service record updated for ('compute4', 'compute4')

2014-12-04 13:27:00.896 4580 ERROR nova.compute.manager [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Instance failed to spawn

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Traceback (most recent call last):

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/compute/manager.py", line 2231, in \_build\_resources

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] yield resources

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/compute/manager.py", line 2101, in \_build\_and\_run\_instance

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] block\_device\_info=block\_device\_info)

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/virt/libvirt/driver.py", line 2619, in spawn

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] write\_to\_disk=True)

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/virt/libvirt/driver.py", line 4150, in \_get\_guest\_xml

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] context)

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/virt/libvirt/driver.py", line 3936, in \_get\_guest\_config

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] flavor, CONF.libvirt.virt\_type)

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] File "/usr/lib/python2.7/dist-packages/nova/virt/libvirt/vif.py", line 352, in get\_config

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] \_("Unexpected vif\_type=%s") % vif\_type)

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] NovaException: Unexpected vif\_type=binding\_failed

2014-12-04 13:27:00.896 4580 TRACE nova.compute.manager [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73]

2014-12-04 13:27:00.898 4580 AUDIT nova.compute.manager [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Terminating instance

2014-12-04 13:27:00.903 4580 WARNING nova.virt.libvirt.driver [-] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] During wait destroy, instance disappeared.

2014-12-04 13:27:01.083 4580 INFO nova.virt.libvirt.driver [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Deleting instance files /var/lib/nova/instances/3eff58fe-0cc1-4b15-ae0b-70af47cc8f73\_del

2014-12-04 13:27:01.084 4580 INFO nova.virt.libvirt.driver [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] [instance: 3eff58fe-0cc1-4b15-ae0b-70af47cc8f73] Deletion of /var/lib/nova/instances/3eff58fe-0cc1-4b15-ae0b-70af47cc8f73\_del complete

2014-12-04 13:27:01.190 4580 INFO nova.scheduler.client.report [req-614b0f21-cca4-4859-957d-4a78c7f9b8ac None] Compute\_service record updated for ('compute4', 'compute4')

neutron/server.log

2014-12-04 13:27:02.609 6997 INFO urllib3.connectionpool [-] Starting new HTTP connection (1): controller

2014-12-04 13:27:02.615 6997 INFO urllib3.connectionpool [-] Starting new HTTP connection (1): controller

2014-12-04 13:27:02.669 6997 ERROR neutron.notifiers.nova [-] Failed to notify nova on events: [{'name': 'network-changed', 'server\_uuid': u'3eff58fe-0cc1-4b15-ae0b-70af47cc8f73'}]

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova Traceback (most recent call last):

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova File "/usr/lib/python2.7/dist-packages/neutron/notifiers/nova.py", line 223, in send\_events

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova batched\_events)

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova File "/usr/local/lib/python2.7/dist-packages/novaclient/v1\_1/contrib/server\_external\_events.py", line 39, in create

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova return\_raw=True)

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova File "/usr/local/lib/python2.7/dist-packages/novaclient/base.py", line 100, in \_create

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova \_resp, body = self.api.client.post(url, body=body)

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova File "/usr/local/lib/python2.7/dist-packages/novaclient/client.py", line 490, in post

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova return self.\_cs\_request(url, 'POST', \*\*kwargs)

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova File "/usr/local/lib/python2.7/dist-packages/novaclient/client.py", line 479, in \_cs\_request

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova raise e

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova Unauthorized: Unauthorized (HTTP 401) (Request-ID: req-145bed8e-02df-4608-b3ed-1030fb6c21a3)

2014-12-04 13:27:02.669 6997 TRACE neutron.notifiers.nova

SAME error If I TRY ON XILINX-R720 host

root@controller:~# nova boot --flavor 2 --image cirros-0.3.3-x86\_64 --nic port-id=8d0932a9-2cce-401f-96e0-ad9bf961f296 --availability-zone nova:xilinx-r720 XILINX\_2