

**create network**

[root@controller ~]# neutron net-create selfservice

Created a new network:

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| Field | Value |

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| admin\_state\_up | True |

| availability\_zone\_hints | |

| availability\_zones | |

| created\_at | 2016-05-18T05:21:34 |

| description | |

| id | b5f49e1c-9060-4e3c-b229-41e632cc6185 |

| ipv4\_address\_scope | |

| ipv6\_address\_scope | |

| mtu | 1450 |

| name | selfservice |

| port\_security\_enabled | True |

| router:external | False |

| shared | False |

| status | ACTIVE |

| subnets | |

| tags | |

| tenant\_id | 6792fbe2d2f747059d3519428ee5346a |

| updated\_at | 2016-05-18T05:21:34 |

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**Create a subnet on the network**

[root@controller ~]# neutron subnet-create --name selfservice \

> --dns-nameserver 150.235.207.21 --gateway 172.16.1.1 \

> selfservice 172.16.1.0/24

Created a new subnet:

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| Field | Value |

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| allocation\_pools | {"start": "172.16.1.2", "end": "172.16.1.254"} |

| cidr | 172.16.1.0/24 |

| created\_at | 2016-05-18T05:22:53 |

| description | |

| dns\_nameservers | 150.235.207.21 |

| enable\_dhcp | True |

| gateway\_ip | 172.16.1.1 |

| host\_routes | |

| id | 2ba61cf7-04da-4090-9bb1-972c2356ed82 |

| ip\_version | 4 |

| ipv6\_address\_mode | |

| ipv6\_ra\_mode | |

| name | selfservice |

| network\_id | b5f49e1c-9060-4e3c-b229-41e632cc6185 |

| subnetpool\_id | |

| tenant\_id | 6792fbe2d2f747059d3519428ee5346a |

| updated\_at | 2016-05-18T05:22:53 |

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**The provider network must include the router:external option to enable self-service routers to use it**

[root@controller ~]# . admin-openrc

[root@controller ~]# neutron net-update provider --router:external

**create router**

[root@controller ~]# . demo-openrc

[root@controller ~]# neutron router-create router

Created a new router:

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| Field | Value |

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| admin\_state\_up | True |

| availability\_zone\_hints | |

| availability\_zones | |

| description | |

| external\_gateway\_info | |

| id | 80b43211-ca62-42cb-8951-9551f7c7ab9d |

| name | router |

| routes | |

| status | ACTIVE |

| tenant\_id | 6792fbe2d2f747059d3519428ee5346a |

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**add a interface to the router**

[root@controller ~]# neutron router-interface-add router selfservice

Added interface 0be95f42-d345-4aec-b3ce-e62188585bad to router router.

**Set a gateway on the provider network on the router**

[root@controller ~]# neutron router-gateway-set router provider

Set gateway for router router

**List network namespaces**

[root@controller ~]# . admin-openrc

[root@controller ~]# ip netns

qrouter-80b43211-ca62-42cb-8951-9551f7c7ab9d (id: 2)

qdhcp-b5f49e1c-9060-4e3c-b229-41e632cc6185 (id: 1)

qdhcp-d0c303e4-8ad3-4dc8-8a45-8e2c4834f683 (id: 0)

**List ports on the router**

[root@controller ~]# neutron router-port-list router

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| id | name | mac\_address | fixed\_ips |

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| 0be95f42-d345-4aec-b3ce-e62188585bad | | fa:16:3e:56:a4:99 | {"subnet\_id": "2ba61cf7-04da-4090-9bb1-972c2356ed82", "ip\_address": "172.16.1.1"} |

| d83f1ba6-05ea-4912-8859-47c5ba65d7f8 | | fa:16:3e:ae:77:05 | {"subnet\_id": "b04f77bd-194c-4695-8d37-46af07ae146e", "ip\_address": "192.168.125.155"} |

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**Launch an instance on the self-service network**

[root@controller ~]# openstack network list

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| ID | Name | Subnets |

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| d0c303e4-8ad3-4dc8-8a45-8e2c4834f683 | provider | b04f77bd-194c-4695-8d37-46af07ae146e |

| b5f49e1c-9060-4e3c-b229-41e632cc6185 | selfservice | 2ba61cf7-04da-4090-9bb1-972c2356ed82 |

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]0;root@controller:~[root@controller ~]# openstack security group list

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| ID | Name | Description | Project |

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

| 7619b015-ecd0-47fa-811e-644e555d9123 | default | Default security group | 6792fbe2d2f747059d3519428ee5346a |

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[root@controller ~]# openstack server create --flavor m1.nano --image cirros \

> --nic net-id=b5f49e1c-9060-4e3c-b229-41e632cc6185 --security-group default \

> --key-name mykey selfservice-instanc

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| Field | Value |

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| OS-DCF:diskConfig | MANUAL |

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

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

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

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

| OS-SRV-USG:launched\_at | None |

| OS-SRV-USG:terminated\_at | None |

| accessIPv4 | |

| accessIPv6 | |

| addresses | |

| adminPass | DUJe8PDqzyR9 |

| config\_drive | |

| created | 2016-05-18T05:36:45Z |

| flavor | m1.nano (0) |

| hostId | |

| id | a007f415-367c-4d7c-986e-76fb2db393f6 |

| image | cirros (9516baa3-129b-4fc6-b2d4-04cb9fd56cbb) |

| key\_name | mykey |

| name | selfservice-instanc |

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

| progress | 0 |

| project\_id | 6792fbe2d2f747059d3519428ee5346a |

| properties | |

| security\_groups | [{u'name': u'default'}] |

| status | BUILD |

| updated | 2016-05-18T05:36:46Z |

| user\_id | 5b279fce545e4ac5a35ef757bdaa383f |

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[root@controller ~]# openstack console url show selfservice-instanc

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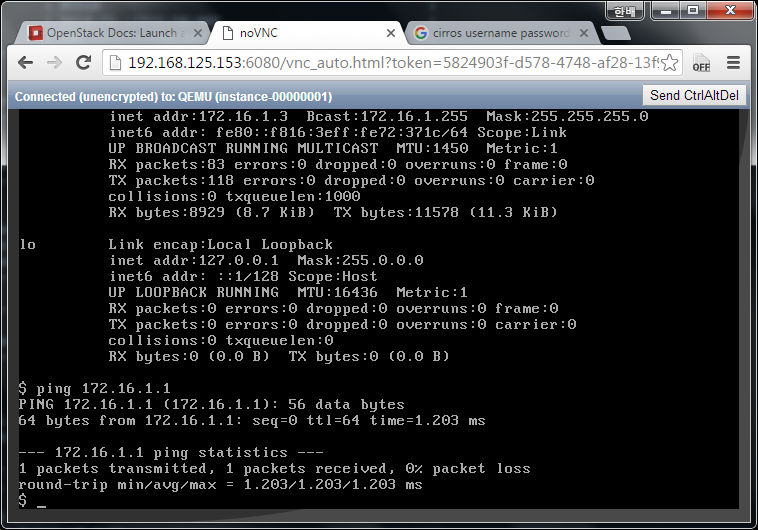
| Field | Value |

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| type | novnc |

| url | http://controller:6080/vnc\_auto.html?token=5824903f-d578-4748-af28-13f920a074d3 |

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**Create a floating IP address on the provider virtual network**

[root@controller ~]# openstack ip floating create provider

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| Field | Value |

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| fixed\_ip | None |

| id | e711bba2-c1ef-4982-924d-5871da5aeaa0 |

| instance\_id | None |

| ip | 192.168.125.156 |

| pool | provider |

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**Associate the floating IP address with the instance**

[root@controller ~]# openstack ip floating add 192.168.125.156 selfservice-instanc

[root@controller ~]# openstack server list

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| ID | Name | Status | Networks |

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| a007f415-367c-4d7c-986e-76fb2db393f6 | selfservice-instanc | ACTIVE | selfservice=172.16.1.3, 192.168.125.156 |

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