(cmd) Create and Attach Floating IP

Friday, March 1, 2019   3:06 PM

First Check to see if an IP has already been created. If so, the 'Fixed IP Address' column. If there is one, work with other project members if this can be used for the sake of IPv4 conservation.

```
# openstack floating ip list --project ECS -c 'Floating IP Address' -c 'Fixed IP Address'

+--------------------+------------------+
| Floating IP Address | Fixed IP Address |
+--------------------+------------------+
| 143.215.76.169     | 192.168.102.15   |
| 143.215.76.197     | 192.168.102.20   |
| 143.215.76.172     | 172.31.16.73     |
| 143.215.76.187     | 192.168.102.13   |
| 143.215.76.200     | 192.168.102.14   |
| 143.215.76.198     | 192.168.102.22   |
| 143.215.76.185     | 192.168.102.10   |
| 143.215.76.195     | 192.168.102.17   |
+--------------------+------------------+
```

Create or 'Allocate' an IP for you. Remember that an external address will have the prefix 'VLAN' as the name.

```
# openstack floating ip create VLAN1457 -f table -c floating_ip_address

+--------------------+----------------+
| Field              | Value          |
+--------------------+----------------+
| floating_ip_address | 143.215.76.183 |
+--------------------+----------------+
```

Look for the server and self service network associated with it:

```
# openstack server list -f table -c Name -c Networks

+-----------------------------+-----------------------------------------------------------------------------------------+
| Name                        | Networks                                                                                |
+-----------------------------+-----------------------------------------------------------------------------------------+
| mdt-test-mdt-test-cb5azrswivc5 | VLAN1457=143.215.76.206                                                              |
| bacula3-dev                 | ecs-metadata=192.168.102.22, 143.215.76.198                                             |
| bacula2-dev                 | ecs-metadata=192.168.102.14, 143.215.76.200                                             |
| bacula1-dev                 | ecs-metadata=192.168.102.17, 143.215.76.195                                             |
| bacula0-dev                 | ecs-metadata=192.168.102.10, 143.215.76.185                                             |
| debian-minion               | ecs-metadata=192.168.102.9                                                              |
| ubuntu-minion               | ecs-metadata=192.168.102.5                                                              |
| brad-test01                 | ecs-metadata=192.168.102.20, 143.215.76.197                                             |
| angie_vdi                   | ecs-metadata=192.168.102.15, 143.215.76.169                                             |
| ecs-nfsd-dev-1              | ecs-metadata=192.168.102.12                                                             |
| ecs-mysqld-dev-1            | ecs-metadata=192.168.102.16                                                             |
| ecs-httpd-dev-1             | ecs-metadata=192.168.102.7                                                              |
| migserver                   | ecs-metadata=192.168.102.13, 143.215.76.187                                             |
| bosun                       | VLAN1457=143.215.76.159; Vlan2519=172.23.19.11; ecs-metadata=192.168.102.8              |
| rhevm                       | VLAN1457=143.215.76.167; external=172.31.16.77                                          |
| cloudforms                  | external=172.31.16.73, 143.215.76.172                                                   |
+-----------------------------+-----------------------------------------------------------------------------------------+
```

Next, we associate the floating ip we created before:

```
# openstack server add floating ip ubuntu-minion 143.215.76.183
```

Check:

```
#  openstack server list -f table -c Name -c Networks
+-----------------------------+-----------------------------------------------------------------------------------------+
| Name                        | Networks                                                                                |
```

```
+----------------------------+----------------------------------------------------------------------------+
| mdt-test-mdt-test-cb5azrswivc5 | VLAN1457=143.215.76.206                                                     |
| bacula3-dev                | ecs-metadata=192.168.102.22, 143.215.76.198                                |
| bacula2-dev                | ecs-metadata=192.168.102.14, 143.215.76.200                                |
| bacula1-dev                | ecs-metadata=192.168.102.17, 143.215.76.195                                |
| bacula0-dev                | ecs-metadata=192.168.102.10, 143.215.76.185                                |
| debian-minion              | ecs-metadata=192.168.102.9                                                 |
| ubuntu-minion              | ecs-metadata=192.168.102.5, 143.215.76.183                                 |
| brad-test01                | ecs-metadata=192.168.102.20, 143.215.76.197                                |
| angie_vdi                  | ecs-metadata=192.168.102.15, 143.215.76.169                                |
| ecs-nfsd-dev-1             | ecs-metadata=192.168.102.12                                                |
| ecs-mysqld-dev-1           | ecs-metadata=192.168.102.16                                                |
| ecs-httpd-dev-1            | ecs-metadata=192.168.102.7                                                 |
| migserver                  | ecs-metadata=192.168.102.13, 143.215.76.187                                |
| bosun                      | VLAN1457=143.215.76.159; Vlan2519=172.23.19.11; ecs-metadata=192.168.102.8 |
| rhevm                      | VLAN1457=143.215.76.167; external=172.31.16.77                             |
| cloudforms                 | external=172.31.16.73, 143.215.76.172                                      |
+----------------------------+----------------------------------------------------------------------------+
```

Admin:

At this point, make sure DNS and GT Firewall know about the IP with all necessary ports opened. Don't
forget about security groups inside openstack as well...