

- **How to Enable Load Balance as a Service**

This is a service that runs with neutron and let the user create load balance groups for autoscaling.

- **On Network node:**

First of all, install the new service package:

```
suporte@network:~$ sudo apt-get install neutron-lbaas-agent haproxy
```

Then, configure neutron to make use of this service provider:

```
suporte@network:~$ sudo vim /etc/neutron/neutron.conf
```

Add the firewall tag to to the service\_plugins, as we have FWaaS installed, our service\_plugins is like this:

```
service_plugins = router,lbaas,firewall
```

You should also add a service\_provider tag to [service\_providers] section:

```
[service_providers]
service_provider=LOADBALANCER:Haproxy:neutron.services.loadbalancer.drivers.haproxy.plugin_driver.HaproxyOnHostPluginDriver:default
```

Now, configure the service it self, the file for this configurations is /etc/neutron/lbaas\_agent.ini:

```
suporte@network:~$ sudo vim /etc/neutron/lbaas_agent.ini
```

Now, configure the following parameters:

```
[DEFAULT]
interface_driver = neutron.agent.linux.interface.OVSInterfaceDriver
device_driver = neutron.services.loadbalancer.drivers.haproxy.namespace_driver.HaproxyNSDriver

[haproxy]
user_group = haproxy
```

Now, restart the necessary services:

```
suporte@network:~$ sudo service neutron-plugin-openvswitch-agent restart
suporte@network:~$ sudo service neutron-lbaas-agent restart
```

- **On Controller node:**

Enable the service on /etc/neutron/neutron.conf:

```
suporte@network:~$ sudo vim /etc/neutron/neutron.conf
```

And add the firewall tag to to the service\_plugins, as we have FWaaS installed, our service\_plugins is like this:

```
service_plugins = router,lbaas,firewall
```

You should also add a `service_provider` tag to `[service_providers]` section:

```
[service_providers]
service_provider=LOADBALANCER:Haproxy:neutron.services.loadbalancer.drivers.haproxy.plugin_driver.HaproxyOnHostPluginDriver:default
```

And restart the necessary services:

```
suporte@network:~$ sudo service neutron-server restart
```

- **On Horizon node:**

Open the file `/etc/openstack-dashboard/local_settings.py` and enable load balance features on horizon by changing the content of the `OPENSTACK_NEUTRON_NETWORK` tag.

```
suporte@controller:~$ sudo vim /etc/openstack-dashboard/local_settings.py
```

Make sure that `enable_lb` is **True**. Our `OPENSTACK_NEUTRON_NETWORK` is like:

```
OPENSTACK_NEUTRON_NETWORK = {
    'enable_lb': True,
    'enable_firewall': True,
    'enable_quotas': True,
    'enable_vpn': False,
    # The profile_support option is used to detect if an external router can be
    # configured via the dashboard. When using specific plugins the
    # profile_support can be turned on if needed.
    'profile_support': None,
    #'profile_support': 'cisco',
}
```

Then, restart the dashboard to load the new config:

```
suporte@controller:~$ sudo service apache2 restart
suporte@controller:~$ sudo service memcached restart
```

If you find some problem after follow this tutorial, try to restart all the services on neutron or even restart the node , and don't forget to restart the neutron-server before panic.

Take a look at the references to know more about the feature.

**References:**

<http://hj192837.blog.51cto.com/655995/1427256>

[http://docs.openstack.org/admin-guide-cloud/content/install\\_neutron-lbaas-agent.html](http://docs.openstack.org/admin-guide-cloud/content/install_neutron-lbaas-agent.html)