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2 (ML2) 5

2 -

controller

```
[root@controller ~]# yum install openstack-neutron openstack-neutron-ml2 \
openstack-neutron-linuxbridge ebtables
```

1. /etc/neutron/neutron.conf

- [database] :

```
[database]
# ...
connection = mysql+pymysql://neutron:NEUTRON_DBPASS@controller/neutron
```

NEUTRON_DBPASS

[database] connection

- [DEFAULT] 2 (ML2) , IP :

```
[DEFAULT]
# ...
core_plugin = ml2
service_plugins = router
allow_overlapping_ips = true
```

- [DEFAULT] RabbitMQ :

```
[DEFAULT]
# ...
transport_url = rabbit://openstack:RABBIT_PASS@controller
```

RABBIT_PASS

- [DEFAULT] [keystone_authtoken] :

```
[DEFAULT]
# ...
auth_strategy = keystone

[keystone_authtoken]
# ...
www_authenticate_uri = http://controller:5000
auth_url = http://controller:5000
memcached_servers = controller:11211
auth_type = password
project_domain_name = default
user_domain_name = default
project_name = service
username = neutron
password = NEUTRON_PASS
```

NEUTRON_PASS

. [keystone_authtoken]

- [DEFAULT] [nova] compute :

```
[DEFAULT]
# ...
notify_nova_on_port_status_changes = true
notify_nova_on_port_data_changes = true

[nova]
# ...
auth_url = http://controller:5000
auth_type = password
project_domain_name = default
user_domain_name = default
region_name = RegionOne
project_name = service
username = nova
password = NOVA_PASS
```

NOVA_PASS

- [oslo_concurrency] :

```
[oslo_concurrency]
# ...
lock_path = /var/lib/neutron/tmp
```

2 (ML2)

ML2 Linux 2 () 가

1. /etc/neutron/plugins/ml2/ml2_conf.ini

- [ml2] FLAT, VLAN, VXLAN

```
[ml2]
# ...
type_drivers = flat,vlan,vxlan
```

- [ml2] VXLAN

```
[ml2]
# ...
tenant_network_types = vxlan
```

- [ml2] Linux bridge L2-population :

```
[ml2]
# ...
mechanism_drivers = linuxbridge,l2population
```

ML2 type_drivers 가
 .Linux bridge agent VXLAN . * [ml2]
 :

```
[ml2]
# ...
extension_drivers = port_security
```

- * [ml2_type_flat] FLAT provider 가 :

```
[ml2_type_flat]
# ...
flat_networks = provider
```

- * [ml2_type_vxlan] VXLAN

```
[ml2_type_vxlan]
# ...
vni_ranges = 1:1000
```

```
* [securitygroup] ipset :
```

```
[securitygroup]
# ...
enable_ipset = true
```

```
==== Linux bridge agent      ==== Linux bridge agent      2 (
) 가 . 1.
/etc/neutron/plugins/ml2/linuxbridge_agent.ini
.* [linux_bridge] 가 :
```

```
[linux_bridge]
physical_interface_mappings = provider:PROVIDER_INTERFACE_NAME
```

```
PROVIDER_INTERFACE_NAME      Provider
* [vxlan]      VXLAN      ,
      IP      , L2-population .
```

```
[vxlan]
enable_vxlan = true
local_ip = OVERLAY_INTERFACE_IP_ADDRESS
l2_population = true
```

```
OVERLAY_INTERFACE_IP_ADDRESS
IP
. OVERLAY_INTERFACE_IP_ADDRESS IP
.* [securitygroup] iptables
:
```

```
[securitygroup]
# ...
enable_security_group = true
firewall_driver =
neutron.agent.linux.iptables_firewall.IptablesFirewallDriver
```

* sysctl 1 Linux

```
net.bridge.bridge-nf-call-iptables
net.bridge.bridge-nf-call-ip6tables
```

br_netfilter

sysctl Kernel parameter

```
[root@controller ~]# lsmod | grep "br_netfilter"
br_netfilter      22256  0
bridge           151336  1 br_netfilter
```

```
[root@controller ~]# modprobe br_netfilter
```

/etc/modules-load.d/br_netfilter.conf

br_netfilter

```
==== Layer-3          ==== Layer-3 (L3)      가
  NAT                . 1. /etc/neutron/l3_agent.ini
  . * [DEFAULT]      :
```

```
[DEFAULT]
# ...
interface_driver = linuxbridge
```

```
==== DHCP            ==== DHCP      가      DHCP
1. /etc/neutron/dhcp_agent.ini      . * [DEFAULT]
      , dnsmasq DHCP                , Provider
      가                             :
```

```
[DEFAULT]
# ...
interface_driver = linuxbridge
dhcp_driver = neutron.agent.linux.dhcp.Dnsmasq
enable_isolated_metadata = true
```

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