2025/10/07 05:41 1/7 1 -

1 -	
•	
2 (ML2)	
Linux Bridge Agent	6
DHCP	7

Last <u>1</u>
update:
2020/09/09
- https://atl.kr/dokuwiki/doku.php/%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%82%B9\_%EC%98%B5%EC%85%98\_1\_\_%EA%B3%B5%EA%B8%89%EC%9E%90\_%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%81%AC
04:29

https://atl.kr/dokuwiki/ Printed on 2025/10/07 05:41

2025/10/07 05:41 3/7 1 -

1 -

```
controller
```

```
[root@controller \sim]# 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] ML2 :

```
[DEFAULT]
# ...
core_plugin = ml2
service_plugins =
```

• [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
```

https://atl.kr/dokuwiki/ Printed on 2025/10/07 05:41

2025/10/07 05:41 5/7 1 -

2 (ML2)

```
ML2
            Linux
                                                       2 (
                                                                       ) 가
1. /etc/neutron/plugins/ml2/ml2_conf.ini
   • [ml2]
                 FLAT VLAN
[ml2]
# ...
type_drivers = flat,vlan
   • [ml2]
[ml2]
# ...
tenant_network_types =
   • [ml2]
[ml2]
# ...
mechanism_drivers = linuxbridge
                                                                      가
ML2
                     type_drivers
   • [ml2]
[ml2]
extension_drivers = port_security
   • [ml2_type_flat]
                                             가
[ml2_type_flat]
# ...
flat_networks = provider
   • [securitygroup]
                                                           ipset
```

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

# **Linux Bridge Agent**

Linux Bridge Agent 2 ( ) 가

1. /etc/neutron/plugins/ml2/linuxbridge\_agent.ini

• [linux bridge] Provider 가

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

# PROVIDER INTERFACE NAME

• [vxlan] VXLAN

```
[vxlan]
enable_vxlan = false
```

• [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

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2025/10/07 05:41

sysctl

Kernel parameter

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

[root@controller ~]# modprobe br\_netfilter

/etc/modules-load.d/br\_netfilter.conf

br\_netfilter

# **DHCP**

**DHCP** 가 **DHCP** 

1. /etc/neutron/dhcp\_agent.ini

• [DEFAULT] , dnsmasq DHCP 가 Provider

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

