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DHCP 7

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1 -

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] 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
```

==== 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

```

```

ML2                type_drivers                가
    .* [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
```

sysctl Kernel parameter br_netfilter .

```
[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

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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