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1 -

controller

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

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_auth_token] :

```
[DEFAULT]
```

```
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```

```
# ...
auth_strategy = keystone

[keystone_auth-token]
# ...
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_auth-token]

- [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

```
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```

```
[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

sysctl Kernel parameter

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

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

```
/etc/modules-load.d/br_nf.conf
```

```
br_nf
```

DHCP

DHCP 가 DHCP

1. /etc/neutron/dhcp_agent.ini

- [DEFAULT]
Provider 가
:

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

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