### 安装和配置控制器节点

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## 先决条件1

在配置OpenStack Networking (neutron)服务之前,您必须创建数据库,服务凭据和API端点。

- 1. 要创建数据库,请完成以下步骤:
  - o 使用数据库访问客户端以root用户身份连接到数据库服务器:

```
$ mysql -u root -p
```

o 创建neutron数据库:

```
MariaDB [ (none) ] CREATE DATABASE neutron;
```

。 授予对neutron数据库的正确访问权限,并替换 NEUTRON\_DBPASS为合适的密码:

```
MariaDB [ (none) ]>
授予
neutron所有特权。* to'neutron' @'localhost'\ IDENTIFIED BY'NEUTRON_DBPASS'; MariaDB [ (none) ]>
授予neutron所有特权。* TO'neutron' @'%'\ IDENTIFIED BY'NEUTRON_DBPASS';
```

- 退出数据库访问客户端。
- 2. 来源admin凭据来访问仅管理员CLI命令:
  - \$。管理员-OpenRC的
- 3. 要创建服务凭据,请完成以下步骤:
  - 。 创建neutron用户:

```
$ openstack user create --domain default --password-prompt neutron
User Password:
Repeat User Password:
Field
               Value
+----
domain_id
                default
                 True
 enabled
                 fdb0f541e28141719b6a43c8944bf1fb
id
                 neutron
 name
 options
                 | {}
| password_expires_at | None
```

• Add the admin role to the neutron user:

```
$ openstack role add --project service --user neutron admin
```

Note

This command provides no output.

• Create the **neutron** service entity:

4. Create the Networking service API endpoints:

\$ openstack endpoint create --region RegionOne \

\$ openstack endpoint create --region RegionOne \
network internal http://controller:9696

Field	Value
enabled id interface region region_id service_id service_name service_type url	True  09753b537ac74422a68d2d791cf3714f   internal  RegionOne  RegionOne  f71529314dab4a4d8eca427e701d209e   neutron network  http://controller:9696

\$ openstack endpoint create --region RegionOne \
 network admin http://controller:9696

Field	Value
enabled	True
id	1ee14289c9374dffb5db92a5c112fc4e
interface	admin
region	RegionOne
region_id	RegionOne
service_id	f71529314dab4a4d8eca427e701d209e
service_name	neutron
service_type	network
url	http://controller:9696

# Configure networking options 1

You can deploy the Networking service using one of two architectures represented by options 1 and 2.

Option 1 deploys the simplest possible architecture that only supports attaching instances to provider (external) networks. No self-service (private) networks, routers, or floating IP addresses. Only the admin or other privileged user can manage provider networks.

Option 2 augments option 1 with layer-3 services that support attaching instances to self-service networks. The **demo** or other unprivileged user can manage self-service networks including routers that provide connectivity between self-service and provider networks. Additionally, floating IP addresses provide connectivity to instances using self-service networks from external networks such as the Internet.

Self-service networks typically use overlay networks. Overlay network protocols such as VXLAN include additional headers that increase overhead and decrease space available for the payload or user data. Without knowledge of the virtual network infrastructure, instances attempt to send packets using the default Ethernet maximum transmission unit (MTU) of 1500 bytes. The Networking service automatically provides the correct MTU value to instances via DHCP. However, some cloud images do not use DHCP or ignore the DHCP MTU option and require configuration using metadata or a script.

Note

Option 2 also supports attaching instances to provider networks.

Choose one of the following networking options to configure services specific to it. Afterwards, return here and proceed to Configure the metadata agent.

- Networking Option 1: Provider networks (controller-install-option1-rdo.html)
- Networking Option 2: Self-service networks (controller-install-option2-rdo.html)

### Configure the metadata agent 1

The metadata agent provides configuration information such as credentials to instances.

- Edit the /etc/neutron/metadata\_agent.ini file and complete the following actions:
  - In the [DEFAULT] section, configure the metadata host and shared secret:

```
[DEFAULT]
# ...
nova_metadata_host = controller
metadata_proxy_shared_secret = METADATA_SECRET
```

Replace METADATA\_SECRET with a suitable secret for the metadata proxy.

# Configure the Compute service to use the Networking service 1

#### Note

The Nova compute service must be installed to complete this step. For more details see the compute install guide found under the *Installation Guides* section of the docs website (https://docs.openstack.org).

- Edit the /etc/nova/nova.conf file and perform the following actions:
  - In the [neutron] section, configure access parameters, enable the metadata proxy, and configure the secret:

```
[neutron]
# ...
url = http://controller:9696
auth_url = http://controller:35357
auth_type = password
project_domain_name = default
user_domain_name = default
region_name = RegionOne
project_name = service
username = neutron
password = NEUTRON_PASS
service_metadata_proxy = true
metadata_proxy_shared_secret = METADATA_SECRET
```

Replace NEUTRON\_PASS with the password you chose for the neutron user in the Identity service.

Replace METADATA\_SECRET with the secret you chose for the metadata proxy.

## Finalize installation ¶

1. The Networking service initialization scripts expect a symbolic link /etc/neutron/plugin.ini pointing to the ML2 plug-in configuration file, /etc/neutron/plugins/m12/m12\_conf.ini. If this symbolic link does not exist, create it using the following command:

```
# ln -s /etc/neutron/plugins/ml2_ml2_conf.ini /etc/neutron/plugin.ini
```

2. Populate the database:

```
# su -s /bin/sh -c "neutron-db-manage --config-file /etc/neutron/neutron.conf \
    --config-file /etc/neutron/plugins/ml2/ml2_conf.ini upgrade head" neutron
```

Note

Database population occurs later for Networking because the script requires complete server and plug-in configuration files.

3. Restart the Compute API service:

```
# systemctl restart openstack-nova-api.service
```

4. Start the Networking services and configure them to start when the system boots.

For both networking options:

# systemctl enable neutron-server.service \
 neutron-linuxbridge-agent.service neutron-dhcp-agent.service \
 neutron-metadata-agent.service
# systemctl start neutron-server.service \
 neutron-linuxbridge-agent.service neutron-dhcp-agent.service \
 neutron-metadata-agent.service

For networking option 2, also enable and start the layer-3 service:

# systemctl enable neutron-l3-agent.service
# systemctl start neutron-l3-agent.service

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★ 发现错误?报告错误(HTTPS://BUGS.LAUNCHPAD.NET/NEUTRON/+FILEBUG?

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② 问题吗?(HTTP://ASK.OPENSTACK.ORG)



OpenStack文档 <sup>▼</sup>

Neutron 12.0.1

(../index.html)

安装指南 (index.html)

概观 (overview.html)

网络服务概述 (common/get-started-networking.html)

网络 (中子)概念 (concepts.html)

安装并配置openSUSE和SUSE Linux Enterprise (install-obs.html)

为红帽企业Linux和CentOS安装和配置 (install-rdo.html)

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OpenStack网络指南 (../admin/index.html)

中子配置选项 (../configuration/index.html)

命令行界面参考 (../cli/index.html)

中子特征分类 (../feature\_classification/index.html)

贡献者指南 (../contributor/index.html)

页面内容

先决条件

配置网络选项

配置元数据代理

配置计算服务以使用网络服务

#### 完成安装

#### OpenStack的

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- 有助于 (http://docs.openstack.org/infra/manual/developers.html)

#### 文档

- OpenStack手册 (http://docs.openstack.org)
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- API文档 (http://developer.openstack.org)
- 维基 (https://wiki.openstack.org)

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