


安装和配置控制器节点

« (cinder-storage-install-rdo.html)

» (cinder-backup-install-rdo.html)

 (https://bugs.launchpad.net/cinder/+filebug?field.title=Install%20and%20configure%20controller%20node%20in%20Cinder&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [] into [x] to check boxes:%0A%0A- [] This doc is inaccurate in this way: ____%0A- [] This is a doc addition request.%0A- [] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A-----%0ARelease:%2012.0.1.dev9%20on%202018-03-08%2015:24%0ASHA:%20ca6e2fb1fb74150680bff605a241947fc88ddd51%0ASource:%20https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/install/cinder-controller-install-rdo.rst%0AURL: https://docs.openstack.org/cinder/queens/install/cinder-controller-install-rdo.html&field.tags=doc)

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本节介绍如何在控制器节点上安装和配置代码为cinder的块存储服务。此服务至少需要一个为实例提供卷的额外存储节点。

先决条件¶

在安装和配置块存储服务之前，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：
- a. 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
```

- b. 创建cinder数据库：

```
MariaDB [ (none) ]> CREATE DATABASE cinder;
```

- c. 授予对cinder数据库的适当访问权限：

```
MariaDB [ (none) ]>将所有权限
授予
cinder。*至'cinder'@'localhost'\ IDENTIFIED BY'CINDER_DBPASS'; MariaDB [ (none) ]>将所有权限
授予cinder。* TO'cinder' '@'%'\ IDENTIFIED BY'CINDER_DBPASS';
```

- 用CINDER_DBPASS适当的密码替换。
- d. 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：

- a. 创建一个cinder用户：

```
$ openstack user create --domain default --password-prompt cinder

用户密码:
重复用户密码:
+ ----- + ----- +
| 字段| 值|
+ ----- + ----- +
| domain_id | 默认|
| 启用| True |
| id | 9d7e33de3e1a498390353819bc7d245d |
| 名称| 煤渣|
| 选项| {} |
| password_expires_at | 无|
+ ----- + ----- +
```

- b. 将admin角色添加到cinder用户：

```
$ openstack角色添加--project服务 - 用户cinder管理员
```

注意

该命令不提供输出。

c. 创建cinderv2和cinderv3服务实体：

```
$ openstack服务创建 - 名称cinderv2 \ -
  描述“OpenStack块存储” volumev2

+ -----+ +-----+
|  字段 |  值 |
+-----+ +-----+
|  描述 | OpenStack块存储 |
|  启用 | True  |
|  id   | eb9fd245bdb414695952e93f29fe3ac |
|  名称 | cinderv2 |
|  键入 | volumev2 |
+-----+ +-----+
```

```
$ openstack服务创建 - 名称cinderv3 \ -
  描述“OpenStack块存储” volumev3

+ -----+ +-----+
|  字段 |  值 |
+-----+ +-----+
|  描述 | OpenStack块存储 |
|  启用 | True  |
|  id   | ab3bbbf780845a1a283490d281e7fda |
|  名称 | cinderv3 |
|  键入 | volumev3 |
+-----+ +-----+
```

注意

块存储服务需要两个服务实体。

4. 创建块存储服务API端点：

```
$ openstack endpoint create --region RegionOne \
    volume2 public http: // controller: 8776 / v2 /% \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | 513e73819e14460fb904163f41ef3759 |
| 界面 | 公共 |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | eb9fd245bdbbc414695952e93f29fe3ac |
| service_name | cinderv2 |
| service_type | volume2 |
| url | http: // controller: 8776 / v2 /% \ (project_id) s |
+ ----- + ----- +

$ openstack endpoint create --region RegionOne \
    volume2内部http: //控制器: 8776 / v2 /% \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | 6436a8a23d014cfd69c586eff146a32 |
| 界面 | 内部 |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | eb9fd245bdbbc414695952e93f29fe3ac |
| service_name | cinderv2 |
| service_type | volume2 |
| url | http: // controller: 8776 / v2 /% \ (project_id) s |
+ ----- + ----- +

$ openstack endpoint create --region RegionOne \
    volume2 admin http: // controller: 8776 / v2 /% \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | e652cf84dd334f359ae9b045a2c91d96 |
| 界面 | admin |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | eb9fd245bdbbc414695952e93f29fe3ac |
| service_name | cinderv2 |
| service_type | volume2 |
| url | http: // controller: 8776 / v2 /% \ (project_id) s |
+ ----- + ----- +
```

```
$ openstack endpoint create --region RegionOne \
    volumev3 public http: // controller: 8776 / v3 / % \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | 03fa2c90153546c295bf30ca86b1344b |
| 界面 | 公共 |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | ab3bbbef780845a1a283490d281e7fda |
| service_name | cinderv3 |
| service_type | volumev3 |
| url | http: // controller: 8776 / v3 / % \ (project_id) s |
+ ----- + ----- +

$ openstack endpoint create --region RegionOne \
    volumev3内部http: //控制器: 8776 / v3 / % \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | 94f684395d1b41068c70e4ecb11364b2 |
| 界面 | 内部 |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | ab3bbbef780845a1a283490d281e7fda |
| service_name | cinderv3 |
| service_type | volumev3 |
| url | http: // controller: 8776 / v3 / % \ (project_id) s |
+ ----- + ----- +

$ openstack endpoint create --region RegionOne \
    volumev3 admin http: // controller: 8776 / v3 / % \ ( project_id \) s

+ ----- + ----- +
| 字段 | 值 |
+ ----- + ----- +
| 启用 | True |
| id | 4511c28a0f9840c78bacb25f10f62c98 |
| 界面 | admin |
| 区域 | RegionOne |
| region_id | RegionOne |
| service_id | ab3bbbef780845a1a283490d281e7fda |
| service_name | cinderv3 |
| service_type | volumev3 |
| url | http: // controller: 8776 / v3 / % \ (project_id) s |
+ ----- + ----- +
```

注意

块存储服务需要每个服务实体的端点。

安装和配置的部件I

1. 安装软件包：

```
# 百胜安装OpenStack的，煤渣
```

2. 编辑/etc/cinder/cinder.conf文件并完成以下操作：

a. 在该[database]部分中，配置数据库访问：

```
[database]
#...
connection = mysql + pymysql: // cinder: CINDER_DBPASS @ controller / cinder
```

替换CINDER_DBPASS为您为Block Storage数据库选择的密码。

b. 在该[DEFAULT]部分中，配置RabbitMQ 消息队列访问：

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

替换RABBIT_PASS为您为该openstack帐户选择的密码 RabbitMQ。

c. 在[DEFAULT]和[keystone_authtoken]部分中，配置身份服务访问：

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

[keystone_authtoken]
#...
auth_uri = HTTP://控制器: 5000
auth_url = HTTP://控制器: 35357
memcached_servers = 控制器: 11211
AUTH_TYPE = 密码
project_domain_id = 默认
user_domain_id = 默认
PROJECT_NAME = 服务
的用户名 = 煤渣
密码 = CINDER_PASS
```

替换CINDER_PASS为您cinder在身份识别服务中为用户选择的密码。

注意

注释掉或删除该[keystone_authtoken]部分中的其他选项。

d. 在该[DEFAULT]部分中，将该my_ip选项配置为使用控制器节点的管理接口IP地址：

```
[DEFAULT]
#...
my_ip = 10.0.0.11
```

3. 在该[oslo_concurrency]部分中，配置锁定路径：

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

4. 填充块存储数据库：

```
# 苏-s / bin / sh的-c “煤渣管理数据库同步”煤渣
```

注意

忽略此输出中的任何弃用消息。

配置Compute以使用块存储¹

1. 编辑/etc/nova/nova.conf文件并添加以下内容：

```
[cinder]
os_region_name = RegionOne
```

完成安装¹

1. 重新启动Compute API服务：


```
# systemctl重新启动OpenStack的-nova-api.service
```

2. 启动块存储服务并将其配置为在系统引导时启动：

```
# systemctl 支持 OpenStack的，煤渣api.service的OpenStack，煤渣scheduler.service
# systemctl启动的OpenStack，煤渣api.service的OpenStack，煤渣scheduler.service
```

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