安装和配置（Red Hat）

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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glance的Image服务。为了简单起见，该配置将图像存储在本地文件系统上。

先决条件¶

在安装和配置Image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：

   ○ 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
     ```

   ○ 创建**glance**数据库：

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

   ○ 授予对**glance**数据库的适当访问权限：

     ```
     MariaDB [（none）]>一目了然地
         授予
     所有特权。*'浏览'@'localhost'\ IDENTIFIED BY'GLANCE_DBPASS'; MariaDB [（none）]>一目了然地
         授予所有特权。* TO'glance' @'%'\ IDENTIFIED BY'GLANCE_DBPASS';
     ```

     用**GLANCE_DBPASS**适当的密码替换。

   ○ 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**glance**用户：

     ```
     $ openstack用户创建 - 域默认 - 密码提示一瞥

     用户密码：
     重复用户密码：
     + -------------------- + ------------------- ------------- +
     | 字段| 值|
     + -------------------- + ------------------------ ------- +
     | domain_id | 默认|
     | 启用| True |
     | id | 3f4e777c4062483ab8d9edd7dff829df |
     | 名称| 浏览|
     | 选项| {} |
     | password_expires_at | 无|
     + -------------------- + ------------------------ ------- +
     ```

   ○ 将**admin**角色添加到**glance**用户和 **service**项目中：

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

     > ✔ Note
     >
     > This command provides no output.

○ Create the **glance** service entity:

```
$ openstack service create --name glance \
  --description "OpenStack Image" image

+-------------+----------------------------------+
| Field       | Value                            |
+-------------+----------------------------------+
| description | OpenStack Image                  |
| enabled     | True                             |
| id          | 8c2c7f1b9b5049ea9e63757b5533e6d2 |
| name        | glance                           |
| type        | image                            |
+-------------+----------------------------------+
```

4. Create the Image service API endpoints:

```
$ openstack endpoint create --region RegionOne \
  image public http://controller:9292

+--------------+----------------------------------+
| Field        | Value                            |
+--------------+----------------------------------+
| enabled      | True                             |
| id           | 340be3625e9b4239a6415d034e98aace |
| interface    | public                           |
| region       | RegionOne                        |
| region_id    | RegionOne                        |
| service_id   | 8c2c7f1b9b5049ea9e63757b5533e6d2 |
| service_name | glance                           |
| service_type | image                            |
| url          | http://controller:9292           |
+--------------+----------------------------------+

$ openstack endpoint create --region RegionOne \
  image internal http://controller:9292

+--------------+----------------------------------+
| Field        | Value                            |
+--------------+----------------------------------+
| enabled      | True                             |
| id           | a6e4b153c2ae4c919eccfdbb7dceb5d2 |
| interface    | internal                         |
| region       | RegionOne                        |
| region_id    | RegionOne                        |
| service_id   | 8c2c7f1b9b5049ea9e63757b5533e6d2 |
| service_name | glance                           |
| service_type | image                            |
| url          | http://controller:9292           |
+--------------+----------------------------------+

$ openstack endpoint create --region RegionOne \
  image admin http://controller:9292

+--------------+----------------------------------+
| Field        | Value                            |
+--------------+----------------------------------+
| enabled      | True                             |
| id           | 0c37ed58103f4300a84ff125a539032d |
| interface    | admin                            |
| region       | RegionOne                        |
| region_id    | RegionOne                        |
| service_id   | 8c2c7f1b9b5049ea9e63757b5533e6d2 |
| service_name | glance                           |
| service_type | image                            |
| url          | http://controller:9292           |
+--------------+----------------------------------+
```

Install and configure components¶

> ✔ Note
>
> Default configuration files vary by distribution. You might need to add these sections and options rather than modifying existing sections and options. Also, an ellipsis (...) in the configuration snippets indicates potential default configuration options that you should retain.

1. Install the packages:

```
# yum install openstack-glance
```

2. Edit the **/etc/glance/glance-api.conf** file and complete the following actions:

- In the **[database]** section, configure database access:

```
[database]
# ...
connection = mysql+pymysql://glance:GLANCE_DBPASS@controller/glance
```

Replace **GLANCE_DBPASS** with the password you chose for the Image service database.

- In the **[keystone_authtoken]** and **[paste_deploy]** sections, configure Identity service access:

```
[keystone_authtoken]
# ...
auth_uri = http://controller:5000
auth_url = http://controller:35357
memcached_servers = controller:11211
auth_type = password
project_domain_name = default
user_domain_name = default
project_name = service
username = glance
password = GLANCE_PASS

[paste_deploy]
# ...
flavor = keystone
```

Replace **GLANCE_PASS** with the password you chose for the **glance** user in the Identity service.

> **❷ Note**
>
> Comment out or remove any other options in the **[keystone_authtoken]** section.

- In the **[glance_store]** section, configure the local file system store and location of image files:

```
[glance_store]
# ...
stores = file,http
default_store = file
filesystem_store_datadir = /var/lib/glance/images/
```

3. Edit the **/etc/glance/glance-registry.conf** file and complete the following actions:

> **❷ Note**
>
> The Glance Registry Service and its APIs have been DEPRECATED in the Queens release and are subject to removal at the beginning of the 'S' development cycle, following the OpenStack standard deprecation policy (https://governance.openstack.org/reference/tags/assert_follows-standard-deprecation.html).
>
> For more information, see the Glance specification document Actually Deprecate the Glance Registry (http://specs.openstack.org/openstack/glance-specs/specs/queens/approved/glance/deprecate-registry.html).

- In the **[database]** section, configure database access:

```
[database]
# ...
connection = mysql+pymysql://glance:GLANCE_DBPASS@controller/glance
```

Replace **GLANCE_DBPASS** with the password you chose for the Image service database.

- In the **[keystone_authtoken]** and **[paste_deploy]** sections, configure Identity service access:

```
[keystone_authtoken]
# ...
auth_uri = http://controller:5000
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memcached_servers = controller:11211
auth_type = password
project_domain_name = default
user_domain_name = default
project_name = service
username = glance
password = GLANCE_PASS

[paste_deploy]
# ...
flavor = keystone
```

Replace **GLANCE_PASS** with the password you chose for the **glance** user in the Identity service.

> **Note**
>
> Comment out or remove any other options in the **[keystone_authtoken]** section.

4. Populate the Image service database:

```
# su -s /bin/sh -c "glance-manage db_sync" glance
```

> **Note**
>
> Ignore any deprecation messages in this output.

Finalize installation¶

- Start the Image services and configure them to start when the system boots:

```
# systemctl enable openstack-glance-api.service \
  openstack-glance-registry.service
# systemctl start openstack-glance-api.service \
  openstack-glance-registry.service
```

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