**[openstack 命令行管理 - 目录(备忘)](http://blog.csdn.net/signmem/article/details/19513775)**

相关 openstack  命令行管理, 分下面部分进行介绍

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[openstack 命令行管理二 - 镜像管理 (备忘)](http://blog.csdn.net/signmem/article/details/19420025)  
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[openstack 命令行管理十 - 密钥管理 (备忘)](http://blog.csdn.net/signmem/article/details/19474615)  
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[openstack 命令行管理十二 - 内部网络[instance专用]管理 (备忘)](http://blog.csdn.net/signmem/article/details/19475231)  
[openstack 命令行管理十三 - 外部网络[外部连接专用]管理 (备忘)](http://blog.csdn.net/signmem/article/details/19476165)  
[openstack 命令行管理十四 - 路由管理 (备忘)](http://blog.csdn.net/signmem/article/details/19477551)  
[openstack 命令行管理十五 - 浮动 IP 管理 (备忘)](http://blog.csdn.net/signmem/article/details/19478001)  
[openstack 命令行管理十六 - 网络测试 (备忘)](http://blog.csdn.net/signmem/article/details/19478209)  
[openstack 命令行管理十七 - 宿主主机管理 (备忘)](http://blog.csdn.net/signmem/article/details/19512899)  
[openstack 命令行管理十八 - instance管理 (备忘)](http://blog.csdn.net/signmem/article/details/19513299)  
[openstack 命令行管理十九 - 日志管理 (备忘)](http://blog.csdn.net/signmem/article/details/19513525)  
[openstack 命令行管理二十 - instance novnc  访问管理 (备忘)](http://blog.csdn.net/signmem/article/details/19513623)

[**openstack 命令行管理一 - br-ex 网络设定 (备忘)**](http://blog.csdn.net/signmem/article/details/19419517)

理解:

openstack 内部网络结构如下

|------------  内部网络   ----------|    <- 虚拟路由 ->  |----- 外部网络 ------|   
[instance1 eth0]  ==== br-int                                                br-ext====== 物理eth0  
[instance2 eth1]  =====/

确保打开网络转发功能

[root@station140 ~(keystone\_admin)]# sysctl -p

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19419517)[在CODE上查看代码片](https://code.csdn.net/snippets/193399)

1. net.ipv4.ip\_forward = 1

net.ipv4.ip\_forward = 1

cat /etc/sysconfig/network-scripts/ifcfg-eth0

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19419517)[在CODE上查看代码片](https://code.csdn.net/snippets/193399)

1. DEVICE="eth0"
2. BOOTPROTO="none"
3. HWADDR="00:50:56:81:C6:5B" [必须具有正确的 MAC, 否则报错]
4. IPV6INIT="no"
5. MTU="1500"
6. NM\_CONTROLLED="no"
7. ONBOOT="yes"
8. TYPE="Ethernet"
9. UUID="f3690b2c-7707-4be0-8f76-648cb64da30f"
10. #IPADDR=192.168.48.140
11. #NETMASK=255.255.255.0
12. #GATEWAY=192.168.48.1

DEVICE="eth0"

BOOTPROTO="none"

HWADDR="00:50:56:81:C6:5B" [必须具有正确的 MAC, 否则报错]

IPV6INIT="no"

MTU="1500"

NM\_CONTROLLED="no"

ONBOOT="yes"

TYPE="Ethernet"

UUID="f3690b2c-7707-4be0-8f76-648cb64da30f"

#IPADDR=192.168.48.140

#NETMASK=255.255.255.0

#GATEWAY=192.168.48.1

cat /etc/sysconfig/network-scripts/ifcfg-br-ex

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19419517)[在CODE上查看代码片](https://code.csdn.net/snippets/193399)

1. DEVICE=br-ex
2. IPADDR=192.168.48.140
3. NETMASK=255.255.255.0
4. ONBOOT=yes
5. GATEWAY=192.168.48.1

DEVICE=br-ex

IPADDR=192.168.48.140

NETMASK=255.255.255.0

ONBOOT=yes

GATEWAY=192.168.48.1

生效方法, 必须一行执行, 否则网络断开 ssh 连接

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19419517)[在CODE上查看代码片](https://code.csdn.net/snippets/193399)

1. ovs-vsctl add-port br-ex eth0; service network restart

ovs-vsctl add-port br-ex eth0; service network restart

查询网络地址(只显示部分信息)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19419517)[在CODE上查看代码片](https://code.csdn.net/snippets/193399)

1. [root@station140 ~(keystone\_admin)]# ifconfig
2. br-ex     Link encap:Ethernet  HWaddr 00:50:56:81:C6:5B
3. inet addr:192.168.48.140  Bcast:192.168.48.255  Mask:255.255.255.0
4. inet6 addr: fe80::250:56ff:fe81:c65b/64 Scope:Link
5. UP BROADCAST RUNNING  MTU:1500  Metric:1
6. RX packets:32144 errors:0 dropped:0 overruns:0 frame:0
7. TX packets:24644 errors:0 dropped:0 overruns:0 carrier:0
8. collisions:0 txqueuelen:0
9. RX bytes:11952047 (11.3 MiB)  TX bytes:7386338 (7.0 MiB)
11. br-int    Link encap:Ethernet  HWaddr AA:98:12:BD:BD:49
12. inet6 addr: fe80::a898:12ff:febd:bd49/64 Scope:Link
13. UP BROADCAST RUNNING  MTU:1500  Metric:1
14. RX packets:270 errors:0 dropped:0 overruns:0 frame:0
15. TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
16. collisions:0 txqueuelen:0
17. RX bytes:23380 (22.8 KiB)  TX bytes:468 (468.0 b)
19. eth0      Link encap:Ethernet  HWaddr 00:50:56:81:C6:5B
20. inet6 addr: fe80::250:56ff:fe81:c65b/64 Scope:Link
21. UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
22. RX packets:17270550 errors:0 dropped:0 overruns:0 frame:0
23. TX packets:25699 errors:0 dropped:0 overruns:0 carrier:0
24. collisions:0 txqueuelen:1000
25. RX bytes:19175912632 (17.8 GiB)  TX bytes:7421019 (7.0 MiB)

[**openstack 命令行管理二 - 镜像管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19420025)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420025)[在CODE上查看代码片](https://code.csdn.net/snippets/193412)

1. [root@station140 ~(keystone\_admin)]# glance help  | grep image
2. [--os-image-url OS\_IMAGE\_URL] [-U OS\_IMAGE\_URL]
3. [--os-image-api-version OS\_IMAGE\_API\_VERSION]
4. add                 DEPRECATED! Use image-create instead.
5. delete              DEPRECATED! Use image-delete instead.
6. details             DEPRECATED! Use image-list instead.
7. image-create        Create a new image.
8. image-delete        Delete specified image(s).
9. image-download      Download a specific image.
10. image-list          List images you can access.
11. image-members       DEPRECATED! Use member-list instead.
12. image-show          Describe a specific image.
13. image-update        Update a specific image.
14. index               DEPRECATED! Use image-list instead.
15. member-create       Share a specific image with a tenant.
16. member-delete       Remove a shared image from a tenant.
17. member-images       DEPRECATED! Use member-list instead.
18. member-list         Describe sharing permissions by image or tenant.
19. show                DEPRECATED! Use image-show instead.
20. update              DEPRECATED! Use image-update instead.

[root@station140 ~(keystone\_admin)]# glance help | grep image

[--os-image-url OS\_IMAGE\_URL] [-U OS\_IMAGE\_URL]

[--os-image-api-version OS\_IMAGE\_API\_VERSION]

add DEPRECATED! Use image-create instead.

delete DEPRECATED! Use image-delete instead.

details DEPRECATED! Use image-list instead.

image-create Create a new image.

image-delete Delete specified image(s).

image-download Download a specific image.

image-list List images you can access.

image-members DEPRECATED! Use member-list instead.

image-show Describe a specific image.

image-update Update a specific image.

index DEPRECATED! Use image-list instead.

member-create Share a specific image with a tenant.

member-delete Remove a shared image from a tenant.

member-images DEPRECATED! Use member-list instead.

member-list Describe sharing permissions by image or tenant.

show DEPRECATED! Use image-show instead.

update DEPRECATED! Use image-update instead.

下载镜像或者自行创建 [ 略 ]

导入镜像方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420025)[在CODE上查看代码片](https://code.csdn.net/snippets/193412)

1. [root@localhost tmp]# source /root/keystonerc\_admin
3. [root@localhost tmp(keystone\_admin)]# glance image-create --name centos5.8\_x86\_64 --disk-format=qcow2 --container-format=bare --is-public=True --file=/tmp/centos5.8\_x86\_64\_growroot\_1.2\_20131231.qcow2
5. +------------------+--------------------------------------+
6. | Property         | Value                                |
7. +------------------+--------------------------------------+
8. | checksum         | 06de52dfbc2f582115b0c1981c2e3568     | 当前文件 md5 checksum 码
9. | container\_format | bare                                 |
10. | created\_at       | 2014-02-14T03:33:01                  | 导入时间
11. | deleted          | False                                |
12. | deleted\_at       | None                                 |
13. | disk\_format      | qcow2                                | 磁盘格式
14. | id               | 2aad80bf-6fbb-4348-bb20-2c07dbf4f687 | 当前磁盘唯一 ID 值
15. | is\_public        | True                                 |
16. | min\_disk         | 0                                    |
17. | min\_ram          | 0                                    |
18. | name             | centos5.8\_x86\_64                     |
19. | owner            | e3a71a59840c4e88b8740b789c3afb9c     | 当前 openstack owner
20. | protected        | False                                |
21. | size             | 1151598592                           |
22. | status           | active                               |
23. | updated\_at       | 2014-02-14T03:33:11                  |
24. +------------------+--------------------------------------+

[root@localhost tmp]# source /root/keystonerc\_admin

[root@localhost tmp(keystone\_admin)]# glance image-create --name centos5.8\_x86\_64 --disk-format=qcow2 --container-format=bare --is-public=True --file=/tmp/centos5.8\_x86\_64\_growroot\_1.2\_20131231.qcow2

+------------------+--------------------------------------+

| Property | Value |

+------------------+--------------------------------------+

| checksum | 06de52dfbc2f582115b0c1981c2e3568 | 当前文件 md5 checksum 码

| container\_format | bare |

| created\_at | 2014-02-14T03:33:01 | 导入时间

| deleted | False |

| deleted\_at | None |

| disk\_format | qcow2 | 磁盘格式

| id | 2aad80bf-6fbb-4348-bb20-2c07dbf4f687 | 当前磁盘唯一 ID 值

| is\_public | True |

| min\_disk | 0 |

| min\_ram | 0 |

| name | centos5.8\_x86\_64 |

| owner | e3a71a59840c4e88b8740b789c3afb9c | 当前 openstack owner

| protected | False |

| size | 1151598592 |

| status | active |

| updated\_at | 2014-02-14T03:33:11 |

+------------------+--------------------------------------+

列出当前可用镜像

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420025)[在CODE上查看代码片](https://code.csdn.net/snippets/193412)

1. [root@station140 ~(keystone\_admin)]# glance image-list
2. +--------------------------------------+------------------+-------------+------------------+------------+--------+
3. | ID                                   | Name             | Disk Format | Container Format | Size       | Status |
4. +--------------------------------------+------------------+-------------+------------------+------------+--------+
5. | 2aad80bf-6fbb-4348-bb20-2c07dbf4f687 | centos5.8\_x86\_64 | qcow2       | bare             | 1151598592 | active |
6. | 2d6bb00d-002f-4675-ba84-73d90fdc1020 | cirros           | qcow2       | bare             | 13147648   | active |
7. +--------------------------------------+------------------+-------------+------------------+------------+--------+

[root@station140 ~(keystone\_admin)]# glance image-list

+--------------------------------------+------------------+-------------+------------------+------------+--------+

| ID | Name | Disk Format | Container Format | Size | Status |

+--------------------------------------+------------------+-------------+------------------+------------+--------+

| 2aad80bf-6fbb-4348-bb20-2c07dbf4f687 | centos5.8\_x86\_64 | qcow2 | bare | 1151598592 | active |

| 2d6bb00d-002f-4675-ba84-73d90fdc1020 | cirros | qcow2 | bare | 13147648 | active |

+--------------------------------------+------------------+-------------+------------------+------------+--------+

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420025)[在CODE上查看代码片](https://code.csdn.net/snippets/193412)

1. [root@station140 ~(keystone\_admin)]# glance details
2. ================================================================================
3. URI: http://192.168.48.140:9292/v1/images/2aad80bf-6fbb-4348-bb20-2c07dbf4f687
4. Id: 2aad80bf-6fbb-4348-bb20-2c07dbf4f687
5. Public: Yes
6. Protected: No
7. Name: centos5.8\_x86\_64
8. Status: active
9. Size: 1151598592
10. Disk format: qcow2
11. Container format: bare
12. Minimum Ram Required (MB): 0
13. Minimum Disk Required (GB): 0
14. Owner: e3a71a59840c4e88b8740b789c3afb9c
15. Created at: 2014-02-14T03:33:01
16. Deleted at: None
17. Updated at: 2014-02-14T03:33:11
18. ================================================================================

[root@station140 ~(keystone\_admin)]# glance details

================================================================================

URI: http://192.168.48.140:9292/v1/images/2aad80bf-6fbb-4348-bb20-2c07dbf4f687

Id: 2aad80bf-6fbb-4348-bb20-2c07dbf4f687

Public: Yes

Protected: No

Name: centos5.8\_x86\_64

Status: active

Size: 1151598592

Disk format: qcow2

Container format: bare

Minimum Ram Required (MB): 0

Minimum Disk Required (GB): 0

Owner: e3a71a59840c4e88b8740b789c3afb9c

Created at: 2014-02-14T03:33:01

Deleted at: None

Updated at: 2014-02-14T03:33:11

================================================================================

删除镜像

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420025)[在CODE上查看代码片](https://code.csdn.net/snippets/193412)

1. [root@station140 ~(keystone\_admin)]# nova image-delete cirros

[**openstack 命令行管理三 - tenant 管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19420207)

project 等同于 tenants  
OpenStack Compute Service (nova) 作为认证时候, 称为 project  
OpenStack Identity Service (keystone) 作为认证时候, 称为 tenants

添加用户前需要添加对应 project

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420207)[在CODE上查看代码片](https://code.csdn.net/snippets/193423)

1. keystone 命令帮助
2. tenant-create       Create new tenant.
3. tenant-delete       Delete tenant.
4. tenant-get          Display tenant details.
5. tenant-list         List all tenants.
6. tenant-update       Update tenant name, description, enabled status.
7. bootstrap           Grants a new role to a new user on a new tenant, after
8. --os-tenant-name <auth-tenant-name>
9. --os-tenant-id <tenant-id>

keystone 命令帮助

tenant-create Create new tenant.

tenant-delete Delete tenant.

tenant-get Display tenant details.

tenant-list List all tenants.

tenant-update Update tenant name, description, enabled status.

bootstrap Grants a new role to a new user on a new tenant, after

--os-tenant-name <auth-tenant-name>

--os-tenant-id <tenant-id>

添加 tenant

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420207)[在CODE上查看代码片](https://code.csdn.net/snippets/193423)

1. [root@station140 ~(keystone\_admin)]# keystone tenant-create --name cloud
2. +-------------+----------------------------------+
3. |   Property  |              Value               |
4. +-------------+----------------------------------+
5. | description |                                  |
6. |   enabled   |               True               |
7. |      id     | 9467f30b8bba4770a06a687e4584636b |   <- 创建后, 使用 keystone tenant-get cloud 能够重新调回信息
8. |     name    |              cloud               |
9. +-------------+----------------------------------+

[root@station140 ~(keystone\_admin)]# keystone tenant-create --name cloud

+-------------+----------------------------------+

| Property | Value |

+-------------+----------------------------------+

| description | |

| enabled | True |

| id | 9467f30b8bba4770a06a687e4584636b | <- 创建后, 使用 keystone tenant-get cloud 能够重新调回信息

| name | cloud |

+-------------+----------------------------------+

列出 tenant

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420207)[在CODE上查看代码片](https://code.csdn.net/snippets/193423)

1. [root@station140 ~(keystone\_admin)]# keystone tenant-list
2. +----------------------------------+----------+---------+
3. |                id                |   name   | enabled |
4. +----------------------------------+----------+---------+
5. | e3a71a59840c4e88b8740b789c3afb9c |  admin   |   True  |
6. | fa30a4cd2eba46f0b58d591b7335d660 | alt\_demo |   True  |
7. | 9467f30b8bba4770a06a687e4584636b |  cloud   |   True  |
8. | 87c63116e3b4440eaa9640494b53cd43 |   demo   |   True  |
9. | bc95edec7a674bb8873d067d9ddedaec | services |   True  |
10. +----------------------------------+----------+---------+

[root@station140 ~(keystone\_admin)]# keystone tenant-list

+----------------------------------+----------+---------+

| id | name | enabled |

+----------------------------------+----------+---------+

| e3a71a59840c4e88b8740b789c3afb9c | admin | True |

| fa30a4cd2eba46f0b58d591b7335d660 | alt\_demo | True |

| 9467f30b8bba4770a06a687e4584636b | cloud | True |

| 87c63116e3b4440eaa9640494b53cd43 | demo | True |

| bc95edec7a674bb8873d067d9ddedaec | services | True |

+----------------------------------+----------+---------+

更新信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420207)[在CODE上查看代码片](https://code.csdn.net/snippets/193423)

1. [root@station140 ~(keystone\_admin)]# keystone tenant-update --description="use for test." --enabled=true cloud
2. [root@station140 ~(keystone\_admin)]# keystone tenant-get cloud
3. +-------------+----------------------------------+
4. |   Property  |              Value               |
5. +-------------+----------------------------------+
6. | description |          use for test.           |
7. |   enabled   |               True               |
8. |      id     | 9467f30b8bba4770a06a687e4584636b |
9. |     name    |              cloud               |
10. +-------------+----------------------------------+

[root@station140 ~(keystone\_admin)]# keystone tenant-update --description="use for test." --enabled=true cloud

[root@station140 ~(keystone\_admin)]# keystone tenant-get cloud

+-------------+----------------------------------+

| Property | Value |

+-------------+----------------------------------+

| description | use for test. |

| enabled | True |

| id | 9467f30b8bba4770a06a687e4584636b |

| name | cloud |

+-------------+----------------------------------+

[**openstack 命令行管理四 - 资源管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19420381)

配额可限制 tenants 用光资源, 如浮动 IP, 内存, CPU 等

资源管理帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420381)[在CODE上查看代码片](https://code.csdn.net/snippets/193430)

1. [root@station140 ~(keystone\_admin)]# nova help | grep quota
2. quota-class-show    List the quotas for a quota class.
3. quota-class-update  Update the quotas for a quota class.
4. quota-defaults      List the default quotas for a tenant.
5. quota-delete        Delete quota for a tenant/user so their quota will
6. quota-show          List the quotas for a tenant/user.
7. quota-update        Update the quotas for a tenant/user.

[root@station140 ~(keystone\_admin)]# nova help | grep quota

quota-class-show List the quotas for a quota class.

quota-class-update Update the quotas for a quota class.

quota-defaults List the default quotas for a tenant.

quota-delete Delete quota for a tenant/user so their quota will

quota-show List the quotas for a tenant/user.

quota-update Update the quotas for a tenant/user.

可管理资源

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420381)[在CODE上查看代码片](https://code.csdn.net/snippets/193430)

1. fixed-ips                               每个 project 可用固定 IP 地址, 必须大于等于实例可用的 IP 地址数量
2. floating-ips                每个 project 可用的浮动 IP 地址
3. injected-file-content-bytes             添加的文件最大可包含多少 bytes
4. injected-file-path-bytes                指定的文件目录下最大可包含的文件 bytes
5. injected-files                          每个 project 可以包含的文件数量
6. instances                               每个 project 可包含的最多的 instances 数量
7. key-pairs                               每个用户可用的  key-pairs 的数量
8. metadata-items                          每个实例可拥有的 metadata-items  数量
9. ram                                     允许每个 project 中的 instances 可用的 ram (MB) 数量
10. security-group-rules                    可用的安全组规则
11. security-groups                         每个 project 的安全组
12. cores                                   每个 project 可用的虚拟 CPU 个数

fixed-ips 每个 project 可用固定 IP 地址, 必须大于等于实例可用的 IP 地址数量

floating-ips 每个 project 可用的浮动 IP 地址

injected-file-content-bytes 添加的文件最大可包含多少 bytes

injected-file-path-bytes 指定的文件目录下最大可包含的文件 bytes

injected-files 每个 project 可以包含的文件数量

instances 每个 project 可包含的最多的 instances 数量

key-pairs 每个用户可用的 key-pairs 的数量

metadata-items 每个实例可拥有的 metadata-items 数量

ram 允许每个 project 中的 instances 可用的 ram (MB) 数量

security-group-rules 可用的安全组规则

security-groups 每个 project 的安全组

cores 每个 project 可用的虚拟 CPU 个数

显示

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420381)[在CODE上查看代码片](https://code.csdn.net/snippets/193430)

1. [root@station140 ~(keystone\_admin)]# nova quota-defaults
2. +-----------------------------+-------+
3. | Quota                       | Limit |
4. +-----------------------------+-------+
5. | instances                   | 10    |
6. | cores                       | 20    |
7. | ram                         | 51200 |
8. | floating\_ips                | 10    |
9. | fixed\_ips                   | -1    |
10. | metadata\_items              | 128   |
11. | injected\_files              | 5     |
12. | injected\_file\_content\_bytes | 10240 |
13. | injected\_file\_path\_bytes    | 255   |
14. | key\_pairs                   | 100   |
15. | security\_groups             | 10    |
16. | security\_group\_rules        | 20    |
17. +-----------------------------+-------+

[root@station140 ~(keystone\_admin)]# nova quota-defaults

+-----------------------------+-------+

| Quota | Limit |

+-----------------------------+-------+

| instances | 10 |

| cores | 20 |

| ram | 51200 |

| floating\_ips | 10 |

| fixed\_ips | -1 |

| metadata\_items | 128 |

| injected\_files | 5 |

| injected\_file\_content\_bytes | 10240 |

| injected\_file\_path\_bytes | 255 |

| key\_pairs | 100 |

| security\_groups | 10 |

| security\_group\_rules | 20 |

+-----------------------------+-------+

更新方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19420381)[在CODE上查看代码片](https://code.csdn.net/snippets/193430)

1. [root@station140 ~(keystone\_admin)]# nova quota-class-update --instances 20 default
2. [root@station140 ~(keystone\_admin)]# nova quota-defaults
3. +-----------------------------+-------+
4. | Quota                       | Limit |
5. +-----------------------------+-------+
6. | instances                   | 20    |

[root@station140 ~(keystone\_admin)]# nova quota-class-update --instances 20 default

[root@station140 ~(keystone\_admin)]# nova quota-defaults

+-----------------------------+-------+

| Quota | Limit |

+-----------------------------+-------+

| instances | 20 |

[**openstack 命令行管理五 - 磁盘配额管理(备忘)**](http://blog.csdn.net/signmem/article/details/19473659)

磁盘配额由 Swift 1.8 (OpenStack Grizzly) 管理

Container Quotas: Limits the total size (in bytes) or number of objects that can be stored in a single container.  
Account Quotas: Limits the total size (in bytes) that a user has available in the Object Storage service.

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. [root@station140 ~(keystone\_admin)]# cinder help | grep quota
2. quota-class-show    List the quotas for a quota class.
3. quota-class-update  Update the quotas for a quota class.
4. quota-defaults      List the default quotas for a tenant.
5. quota-show          List the quotas for a tenant.
6. quota-update        Update the quotas for a tenant.
7. quota-usage         List the quota usage for a tenant.

[root@station140 ~(keystone\_admin)]# cinder help | grep quota

quota-class-show List the quotas for a quota class.

quota-class-update Update the quotas for a quota class.

quota-defaults List the default quotas for a tenant.

quota-show List the quotas for a tenant.

quota-update Update the quotas for a tenant.

quota-usage List the quota usage for a tenant.

配额默认针对 tenants 级别, 倒不如改成针对用户级别更方便管理

下面方法限制用户在所有 project 中的磁盘总大小

/etc/glance/glance-api.conf

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. user\_storage\_quota = 0  <- 以 byte 进行计算 ex: 5368709120 (5G)

user\_storage\_quota = 0 <- 以 byte 进行计算 ex: 5368709120 (5G)

ex: icehouse 版本后, 需要修改配置文件 glance-api.conf 中 image\_member\_quota 配置

默认配额配置文件  
/etc/cinder/cinder.conf

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. #quota\_volumes=10
2. #quota\_snapshots=10
3. #quota\_gigabytes=1000

#quota\_volumes=10

#quota\_snapshots=10

#quota\_gigabytes=1000

分别查询, 默认或某个 project 配额

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. [root@station140 ~(keystone\_admin)]# cinder quota-defaults default
2. +-----------+-------+
3. |  Property | Value |
4. +-----------+-------+
5. | gigabytes |  1000 |
6. | snapshots |   10  |
7. |  volumes  |   10  |
8. +-----------+-------+
10. [root@station140 ~(keystone\_admin)]# cinder quota-show 9467f30b8bba4770a06a687e4584636b <- 可选 cloud
11. +-----------+-------+
12. |  Property | Value |
13. +-----------+-------+
14. | gigabytes |  1000 |
15. | snapshots |   10  |
16. |  volumes  |   10  |
17. +-----------+-------+

[root@station140 ~(keystone\_admin)]# cinder quota-defaults default

+-----------+-------+

|  Property | Value |

+-----------+-------+

| gigabytes |  1000 |

| snapshots |   10  |

|  volumes  |   10  |

+-----------+-------+

[root@station140 ~(keystone\_admin)]# cinder quota-show 9467f30b8bba4770a06a687e4584636b <- 可选 cloud

+-----------+-------+

| Property | Value |

+-----------+-------+

| gigabytes | 1000 |

| snapshots | 10 |

| volumes | 10 |

+-----------+-------+

修改 cloud 配额

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. [root@station140 ~(keystone\_admin)]# cinder quota-update --volumes 15 cloud

[root@station140 ~(keystone\_admin)]# cinder quota-update --volumes 15 cloud

查询修改后设定

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473659)[在CODE上查看代码片](https://code.csdn.net/snippets/194002)

1. [root@station140 ~(keystone\_admin)]# cinder quota-show cloud
2. +-----------+-------+
3. |  Property | Value |
4. +-----------+-------+
5. | gigabytes |  1000 |
6. | snapshots |   10  |
7. |  volumes  |   15  |
8. +-----------+-------+

[root@station140 ~(keystone\_admin)]# cinder quota-show cloud

+-----------+-------+

| Property | Value |

+-----------+-------+

| gigabytes | 1000 |

| snapshots | 10 |

| volumes | 15 |

+-----------+-------+

[**openstack 命令行管理六 - 用户管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19473851)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473851)[在CODE上查看代码片](https://code.csdn.net/snippets/194003)

1. [root@station140 ~(keystone\_admin)]# keystone  | grep user
2. [--os-username <auth-user-name>]
3. Create EC2-compatible credentials for user per tenant.
4. List EC2-compatible credentials for a user
5. token-get           Display the current user token.
6. user-create         Create new user
7. user-delete         Delete user
8. user-get            Display user details.
9. user-list           List users.
10. user-password-update
11. Update user password.
12. user-role-add       Add role to user
13. user-role-list      List roles granted to a user
14. user-role-remove    Remove role from user
15. user-update         Update user's name, email, and enabled status.
16. bootstrap           Grants a new role to a new user on a new tenant, after
17. --os-username <auth-user-name>
18. one via authentication (e.g. with username &

[root@station140 ~(keystone\_admin)]# keystone | grep user

[--os-username <auth-user-name>]

Create EC2-compatible credentials for user per tenant.

List EC2-compatible credentials for a user

token-get Display the current user token.

user-create Create new user

user-delete Delete user

user-get Display user details.

user-list List users.

user-password-update

Update user password.

user-role-add Add role to user

user-role-list List roles granted to a user

user-role-remove Remove role from user

user-update Update user's name, email, and enabled status.

bootstrap Grants a new role to a new user on a new tenant, after

--os-username <auth-user-name>

one via authentication (e.g. with username &

添加用户方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473851)[在CODE上查看代码片](https://code.csdn.net/snippets/194003)

1. [root@station140 ~(keystone\_admin)]# keystone user-create --name terry --tenant cloud --pass vipshop --email <A href="mailto:signmem@hotmail.com" target=\_blank>signmem@hotmail.com</A> --enabled true
2. +----------+----------------------------------+
3. | Property |              Value               |
4. +----------+----------------------------------+
5. |  email   |      <A href="mailto:signmem@hotmail.com" target=\_blank>signmem@hotmail.com</A>         |
6. | enabled  |               True               |
7. |    id    | 8f6478593aa845b3b44eded4aade0f6f |
8. |   name   |              terry               |
9. | tenantId | 9467f30b8bba4770a06a687e4584636b |  <- 对应 cloud 的 id
10. +----------+----------------------------------+

[root@station140 ~(keystone\_admin)]# keystone user-create --name terry --tenant cloud --pass vipshop --email [signmem@hotmail.com](mailto:signmem@hotmail.com) --enabled true

+----------+----------------------------------+

| Property | Value |

+----------+----------------------------------+

| email | [signmem@hotmail.com](mailto:signmem@hotmail.com) |

| enabled | True |

| id | 8f6478593aa845b3b44eded4aade0f6f |

| name | terry |

| tenantId | 9467f30b8bba4770a06a687e4584636b | <- 对应 cloud 的 id

+----------+----------------------------------+

更新用户信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473851)[在CODE上查看代码片](https://code.csdn.net/snippets/194003)

1. keystone user-update --name terry --email terry@111.com terry

keystone user-update --name terry --email terry@111.com terry

keystone user-list 命令只能够列出所有用户 或使用参数指定属于某个 project 中的用户

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19473851)[在CODE上查看代码片](https://code.csdn.net/snippets/194003)

1. [root@station140 ~(keystone\_admin)]# keystone user-list --tenant cloud
2. +----------------------------------+-------+---------+---------------+
3. |                id                |  name | enabled |     email     |
4. +----------------------------------+-------+---------+---------------+
5. | 8f6478593aa845b3b44eded4aade0f6f | terry |   True  | terry@111.com |
6. +----------------------------------+-------+---------+---------------+

[root@station140 ~(keystone\_admin)]# keystone user-list --tenant cloud

+----------------------------------+-------+---------+---------------+

| id | name | enabled | email |

+----------------------------------+-------+---------+---------------+

| 8f6478593aa845b3b44eded4aade0f6f | terry | True | terry@111.com |

+----------------------------------+-------+---------+---------------+

[**openstack 命令行管理七 - 角色管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19474069)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474069)[在CODE上查看代码片](https://code.csdn.net/snippets/194008)

1. [root@station140 ~(keystone\_admin)]# keystone help | grep role
2. role-create         Create new role.
3. role-delete         Delete role.
4. role-get            Display role details.
5. role-list           List all roles.
6. user-role-add       Add role to user
7. user-role-list      List roles granted to a user
8. user-role-remove    Remove role from user
9. bootstrap           Grants a new role to a new user on a new tenant, after

[root@station140 ~(keystone\_admin)]# keystone help | grep role

role-create Create new role.

role-delete Delete role.

role-get Display role details.

role-list List all roles.

user-role-add Add role to user

user-role-list List roles granted to a user

user-role-remove Remove role from user

bootstrap Grants a new role to a new user on a new tenant, after

创建方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474069)[在CODE上查看代码片](https://code.csdn.net/snippets/194008)

1. [root@station140 ~(keystone\_admin)]# keystone role-create --name vgroup
2. +----------+----------------------------------+
3. | Property |              Value               |
4. +----------+----------------------------------+
5. |    id    | 9ea4fb60241c4a12b3c89630cf3f087a |
6. |   name   |              vgroup              |
7. +----------+----------------------------------+

[root@station140 ~(keystone\_admin)]# keystone role-create --name vgroup

+----------+----------------------------------+

| Property | Value |

+----------+----------------------------------+

| id | 9ea4fb60241c4a12b3c89630cf3f087a |

| name | vgroup |

+----------+----------------------------------+

把用户添加到某个角色中方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474069)[在CODE上查看代码片](https://code.csdn.net/snippets/194008)

1. [root@station140 ~(keystone\_admin)]# keystone user-role-add --user terry --role vgroup --tenant cloud

[root@station140 ~(keystone\_admin)]# keystone user-role-add --user terry --role vgroup --tenant cloud

显示角色中的用户方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474069)[在CODE上查看代码片](https://code.csdn.net/snippets/194008)

1. [root@station140 ~(keystone\_admin)]# keystone user-role-list --user terry --tenant cloud   <- 必须的参数
2. +----------------------------------+----------+----------------------------------+----------------------------------+
3. |                id                |   name   |             user\_id              |            tenant\_id             |
4. +----------------------------------+----------+----------------------------------+----------------------------------+
5. | 9fe2ff9ee4384b1894a90878d3e92bab | \_member\_ | 8f6478593aa845b3b44eded4aade0f6f | 9467f30b8bba4770a06a687e4584636b |
6. | 9ea4fb60241c4a12b3c89630cf3f087a |  vgroup  | 8f6478593aa845b3b44eded4aade0f6f | 9467f30b8bba4770a06a687e4584636b |
7. +----------------------------------+----------+----------------------------------+----------------------------------+

[root@station140 ~(keystone\_admin)]# keystone user-role-list --user terry --tenant cloud <- 必须的参数

+----------------------------------+----------+----------------------------------+----------------------------------+

|                id                |   name   |             user\_id              |            tenant\_id             |

+----------------------------------+----------+----------------------------------+----------------------------------+

| 9fe2ff9ee4384b1894a90878d3e92bab | \_member\_ | 8f6478593aa845b3b44eded4aade0f6f | 9467f30b8bba4770a06a687e4584636b |

| 9ea4fb60241c4a12b3c89630cf3f087a |  vgroup  | 8f6478593aa845b3b44eded4aade0f6f | 9467f30b8bba4770a06a687e4584636b |

+----------------------------------+----------+----------------------------------+----------------------------------+

移除角色中的某个用户

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474069)[在CODE上查看代码片](https://code.csdn.net/snippets/194008)

1. [root@station140 ~(keystone\_admin)]# keystone user-role-remove --user terry --role vgroup --tenant cloud

[**openstack 命令行管理八 - 服务管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19474203)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. [root@station140 tmp(keystone\_admin)]# keystone  help | grep service
2. service-create      Add service to Service Catalog.
3. service-delete      Delete service from Service Catalog.
4. service-get         Display service from Service Catalog.
5. service-list        List all services in Service Catalog.

[root@station140 tmp(keystone\_admin)]# keystone help | grep service

service-create Add service to Service Catalog.

service-delete Delete service from Service Catalog.

service-get Display service from Service Catalog.

service-list List all services in Service Catalog.

列出当前的服务方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. [root@station140 tmp(keystone\_admin)]# keystone service-list
2. +----------------------------------+------------+--------------+--------------------------------+
3. |                id                |    name    |     type     |          description           |
4. +----------------------------------+------------+--------------+--------------------------------+
5. | 4db88c4e3efe4f188b6f08756d28c407 | ceilometer |   metering   |   Openstack Metering Service   |
6. | e4ce5457b38e4a50a929af9b2b02b81c |   cinder   |    volume    |         Cinder Service         |
7. | ab1e6db2a7b54a459f928075263a8b0f | cinder\_v2  |   volumev2   |       Cinder Service v2        |
8. | f025dc6a95db40f586b6975b154465b9 |   glance   |    image     |    Openstack Image Service     |
9. | 04a34fae776c4573a4d26ccca9407ec9 |  keystone  |   identity   |   OpenStack Identity Service   |
10. | 39f89e436d4942a1b2349e02cfddbed2 |  neutron   |   network    |   Neutron Networking Service   |
11. | 60796518d55347f981ce319121c5e6bf |    nova    |   compute    |   Openstack Compute Service    |
12. | 7867dcf1ec1647efa2287344c2f00775 |  nova\_ec2  |     ec2      |          EC2 Service           |
13. | 743203738a074f5bac198be5e52977d8 |   swift    | object-store | Openstack Object-Store Service |
14. | 8b7b18fc6b7c4f169b10282252c0571c |  swift\_s3  |      s3      |      Openstack S3 Service      |
15. +----------------------------------+------------+--------------+--------------------------------+

[root@station140 tmp(keystone\_admin)]# keystone service-list

+----------------------------------+------------+--------------+--------------------------------+

| id | name | type | description |

+----------------------------------+------------+--------------+--------------------------------+

| 4db88c4e3efe4f188b6f08756d28c407 | ceilometer | metering | Openstack Metering Service |

| e4ce5457b38e4a50a929af9b2b02b81c | cinder | volume | Cinder Service |

| ab1e6db2a7b54a459f928075263a8b0f | cinder\_v2 | volumev2 | Cinder Service v2 |

| f025dc6a95db40f586b6975b154465b9 | glance | image | Openstack Image Service |

| 04a34fae776c4573a4d26ccca9407ec9 | keystone | identity | OpenStack Identity Service |

| 39f89e436d4942a1b2349e02cfddbed2 | neutron | network | Neutron Networking Service |

| 60796518d55347f981ce319121c5e6bf | nova | compute | Openstack Compute Service |

| 7867dcf1ec1647efa2287344c2f00775 | nova\_ec2 | ec2 | EC2 Service |

| 743203738a074f5bac198be5e52977d8 | swift | object-store | Openstack Object-Store Service |

| 8b7b18fc6b7c4f169b10282252c0571c | swift\_s3 | s3 | Openstack S3 Service |

+----------------------------------+------------+--------------+--------------------------------+

服务管理帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. [root@station140 tmp(keystone\_admin)]# nova help | grep service
2. [--service-type <service-type>] [--service-name <service-name>]
3. [--volume-service-name <volume-service-name>]
4. authenticate services.
5. host-list           List all hosts by service.
6. service-disable     Disable the service.
7. service-enable      Enable the service.
8. service-list        Show a list of all running services. Filter by host &
9. --service-type <service-type>
10. --service-name <service-name>
11. --volume-service-name <volume-service-name>

[root@station140 tmp(keystone\_admin)]# nova help | grep service

[--service-type <service-type>] [--service-name <service-name>]

[--volume-service-name <volume-service-name>]

authenticate services.

host-list List all hosts by service.

service-disable Disable the service.

service-enable Enable the service.

service-list Show a list of all running services. Filter by host &

--service-type <service-type>

--service-name <service-name>

--volume-service-name <volume-service-name>

列出 openstack 当前可用的服务器

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. [root@station140 tmp(keystone\_admin)]# nova host-list
2. +----------------------+-------------+----------+
3. | host\_name            | service     | zone     |
4. +----------------------+-------------+----------+
5. | station140.cloud.com | consoleauth | internal |
6. | station140.cloud.com | scheduler   | internal |
7. | station140.cloud.com | conductor   | internal |
8. | station140.cloud.com | compute     | nova     |
9. | station140.cloud.com | cert        | internal |
10. +----------------------+-------------+----------+

[root@station140 tmp(keystone\_admin)]# nova host-list

+----------------------+-------------+----------+

| host\_name | service | zone |

+----------------------+-------------+----------+

| station140.cloud.com | consoleauth | internal |

| station140.cloud.com | scheduler | internal |

| station140.cloud.com | conductor | internal |

| station140.cloud.com | compute | nova |

| station140.cloud.com | cert | internal |

+----------------------+-------------+----------+

注: 当前使用 all in one 模式, 所以只返回一个 host\_name 结果

列出主机上的服务状态

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. [root@station140 tmp(keystone\_admin)]# nova service-list
2. +------------------+----------------------+----------+---------+-------+----------------------------+-----------------+
3. | Binary           | Host                 | Zone     | Status  | State | Updated\_at                 | Disabled Reason |
4. +------------------+----------------------+----------+---------+-------+----------------------------+-----------------+
5. | nova-consoleauth | station140.cloud.com | internal | enabled | up    | 2014-02-14T08:40:37.000000 | None            |
6. | nova-scheduler   | station140.cloud.com | internal | enabled | up    | 2014-02-14T08:40:37.000000 | None            |
7. | nova-conductor   | station140.cloud.com | internal | enabled | up    | 2014-02-14T08:40:38.000000 | None            |
8. | nova-compute     | station140.cloud.com | nova     | enabled | up    | 2014-02-14T08:40:29.000000 | None            |
9. | nova-cert        | station140.cloud.com | internal | enabled | up    | 2014-02-14T08:40:33.000000 | None            |
10. +------------------+----------------------+----------+---------+-------+----------------------------+-----------------+

[root@station140 tmp(keystone\_admin)]# nova service-list

+------------------+----------------------+----------+---------+-------+----------------------------+-----------------+

| Binary | Host | Zone | Status | State | Updated\_at | Disabled Reason |

+------------------+----------------------+----------+---------+-------+----------------------------+-----------------+

| nova-consoleauth | station140.cloud.com | internal | enabled | up | 2014-02-14T08:40:37.000000 | None |

| nova-scheduler | station140.cloud.com | internal | enabled | up | 2014-02-14T08:40:37.000000 | None |

| nova-conductor | station140.cloud.com | internal | enabled | up | 2014-02-14T08:40:38.000000 | None |

| nova-compute | station140.cloud.com | nova | enabled | up | 2014-02-14T08:40:29.000000 | None |

| nova-cert | station140.cloud.com | internal | enabled | up | 2014-02-14T08:40:33.000000 | None |

+------------------+----------------------+----------+---------+-------+----------------------------+-----------------+

关闭某个服务:

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. nova service-disable localhost.localdomain nova-compute --reason 'trial log' <- just test

nova service-disable localhost.localdomain nova-compute --reason 'trial log' <- just test

重新启动服务

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474203)[在CODE上查看代码片](https://code.csdn.net/snippets/194012)

1. nova service-enable localhost.localdomain nova-compute
2. [**openstack 命令行管理九 - flavor管理[主机模板] (备忘)**](http://blog.csdn.net/signmem/article/details/19474397)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 tmp(keystone\_admin)]# nova help | grep flavor
2. flavor-access-add   Add flavor access for the given tenant.
3. flavor-access-list  Print access information about the given flavor.
4. flavor-access-remove
5. Remove flavor access for the given tenant.
6. flavor-create       Create a new flavor
7. flavor-delete       Delete a specific flavor
8. flavor-key          Set or unset extra\_spec for a flavor.
9. flavor-list         Print a list of available 'flavors' (sizes of
10. flavor-show         Show details about the given flavor.
11. volume-type-delete  Delete a specific flavor

[root@station140 tmp(keystone\_admin)]# nova help | grep flavor

flavor-access-add Add flavor access for the given tenant.

flavor-access-list Print access information about the given flavor.

flavor-access-remove

Remove flavor access for the given tenant.

flavor-create Create a new flavor

flavor-delete Delete a specific flavor

flavor-key Set or unset extra\_spec for a flavor.

flavor-list Print a list of available 'flavors' (sizes of

flavor-show Show details about the given flavor.

volume-type-delete Delete a specific flavor

创建自定义 flavor

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 tmp(keystone\_admin)]# nova flavor-create m1.vcomputer 6 2048 20 1
2. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
3. | ID | Name         | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |
4. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
5. | 6  | m1.vcomputer | 2048      | 20   | 0         |      | 1     | 1.0         | True      |
6. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

[root@station140 tmp(keystone\_admin)]# nova flavor-create m1.vcomputer 6 2048 20 1

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| ID | Name | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| 6 | m1.vcomputer | 2048 | 20 | 0 | | 1 | 1.0 | True |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

列出

**[html]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 tmp(keystone\_admin)]# nova flavor-list
2. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
3. | ID | Name         | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |
4. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
5. | 1  | m1.tiny      | 512       | 1    | 0         |      | 1     | 1.0         | True      |
6. | 2  | m1.small     | 2048      | 20   | 0         |      | 1     | 1.0         | True      |
7. | 3  | m1.medium    | 4096      | 40   | 0         |      | 2     | 1.0         | True      |
8. | 4  | m1.large     | 8192      | 80   | 0         |      | 4     | 1.0         | True      |
9. | 5  | m1.xlarge    | 16384     | 160  | 0         |      | 8     | 1.0         | True      |
10. | 6  | m1.vcomputer | 2048      | 10   | 0         |      | 1     | 1.0         | True      |
11. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

[root@station140 tmp(keystone\_admin)]# nova flavor-list

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| ID | Name | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| 1 | m1.tiny | 512 | 1 | 0 | | 1 | 1.0 | True |

| 2 | m1.small | 2048 | 20 | 0 | | 1 | 1.0 | True |

| 3 | m1.medium | 4096 | 40 | 0 | | 2 | 1.0 | True |

| 4 | m1.large | 8192 | 80 | 0 | | 4 | 1.0 | True |

| 5 | m1.xlarge | 16384 | 160 | 0 | | 8 | 1.0 | True |

| 6 | m1.vcomputer | 2048 | 10 | 0 | | 1 | 1.0 | True |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

查询一下 tenant ID

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 ~(keystone\_admin)]# keystone tenant-list
2. +----------------------------------+----------+---------+
3. |                id                |   name   | enabled |
4. +----------------------------------+----------+---------+
5. | 9467f30b8bba4770a06a687e4584636b |  cloud   |   True  |
6. +----------------------------------+----------+---------+

[root@station140 ~(keystone\_admin)]# keystone tenant-list

+----------------------------------+----------+---------+

| id | name | enabled |

+----------------------------------+----------+---------+

| 9467f30b8bba4770a06a687e4584636b | cloud | True |

+----------------------------------+----------+---------+

创建后需要分配到对应的 project

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 tmp(keystone\_admin)]# nova flavor-access-add 6 9467f30b8bba4770a06a687e4584636b
2. +-----------+----------------------------------+
3. | Flavor\_ID | Tenant\_ID                        |
4. +-----------+----------------------------------+
5. | 6         | 9467f30b8bba4770a06a687e4584636b |
6. +-----------+----------------------------------+

[root@station140 tmp(keystone\_admin)]# nova flavor-access-add 6 9467f30b8bba4770a06a687e4584636b

+-----------+----------------------------------+

| Flavor\_ID | Tenant\_ID |

+-----------+----------------------------------+

| 6 | 9467f30b8bba4770a06a687e4584636b |

+-----------+----------------------------------+

注意下面错误信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474397)[在CODE上查看代码片](https://code.csdn.net/snippets/194015)

1. [root@station140 tmp(keystone\_admin)]# nova  flavor-access-list --flavor 6  <- 不针对 public 哟
2. ERROR: Failed to get access list for public flavor type.
3. [**openstack 命令行管理十 - 密钥管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19474615)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474615)[在CODE上查看代码片](https://code.csdn.net/snippets/194018)

1. [root@station140 ~(keystone\_admin)]# nova help | grep key
2. flavor-key          Set or unset extra\_spec for a flavor.
3. keypair-add         Create a new key pair for use with instances.
4. keypair-delete      Delete keypair given by its name.
5. keypair-list        Print a list of keypairs for a user
6. keypair-show        Show details about the given keypair.

[root@station140 ~(keystone\_admin)]# nova help | grep key

flavor-key Set or unset extra\_spec for a flavor.

keypair-add Create a new key pair for use with instances.

keypair-delete Delete keypair given by its name.

keypair-list Print a list of keypairs for a user

keypair-show Show details about the given keypair.

创建密钥方法 [ 略 ]

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474615)[在CODE上查看代码片](https://code.csdn.net/snippets/194018)

1. ssh-keygen 命令 (默认安装时候已经生成密钥)

ssh-keygen 命令 (默认安装时候已经生成密钥)

添加密钥方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474615)[在CODE上查看代码片](https://code.csdn.net/snippets/194018)

1. [root@station140 ~(keystone\_admin)]# nova keypair-add --pub-key /root/.ssh/id\_rsa.pub terrykey

[root@station140 ~(keystone\_admin)]# nova keypair-add --pub-key /root/.ssh/id\_rsa.pub terrykey

显示密钥方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474615)[在CODE上查看代码片](https://code.csdn.net/snippets/194018)

1. [root@station140 ~(keystone\_admin)]# nova keypair-list
2. +----------+-------------------------------------------------+
3. | Name     | Fingerprint                                     |
4. +----------+-------------------------------------------------+
5. | terrykey | 94:b8:9c:2a:31:8c:2c:87:7f:f5:80:24:23:73:f8:e9 |
6. +----------+-------------------------------------------------+

[root@station140 ~(keystone\_admin)]# nova keypair-list

+----------+-------------------------------------------------+

| Name | Fingerprint |

+----------+-------------------------------------------------+

| terrykey | 94:b8:9c:2a:31:8c:2c:87:7f:f5:80:24:23:73:f8:e9 |

+----------+-------------------------------------------------+

密钥作用

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474615)[在CODE上查看代码片](https://code.csdn.net/snippets/194018)

1. 当 instance 分配了浮动 IP 后, 允许 server 能够直接访问 instance 时候, 才可以利用密钥配对进行访问
2. 假如通过 novnc 进行访问时候, 仍然需要通过 root/password 方法进行访问
3. [**openstack 命令行管理十一 - 安全组管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19474821)

参考官方资料

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. You must modify the rules for the default security group because users cannot access instances that use the default group from
2. any IP address outside the cloud.
4. You can modify the rules in a security group to allow access to instances through different ports and protocols. For example,
5. you can modify rules to allow access to instances through SSH, to ping them, or to allow UDP traffic – for example, for a DNS
6. server running on an instance. You specify the following parameters for rules:
8. Source of traffic. Enable traffic to instances from either IP addresses inside the cloud from other group members or from all IP addresses.
10. Protocol. Choose TCP for SSH, ICMP for pings, or UDP.
12. Destination port on virtual machine. Defines a port range. To open a single port only, enter the same value twice. ICMP does not support ports: Enter values to define the codes and types of ICMP traffic to be allowed.
14. Rules are automatically enforced as soon as you create or modify them.

You must modify the rules for the default security group because users cannot access instances that use the default group from

any IP address outside the cloud.

You can modify the rules in a security group to allow access to instances through different ports and protocols. For example,

you can modify rules to allow access to instances through SSH, to ping them, or to allow UDP traffic – for example, for a DNS

server running on an instance. You specify the following parameters for rules:

Source of traffic. Enable traffic to instances from either IP addresses inside the cloud from other group members or from all IP addresses.

Protocol. Choose TCP for SSH, ICMP for pings, or UDP.

Destination port on virtual machine. Defines a port range. To open a single port only, enter the same value twice. ICMP does not support ports: Enter values to define the codes and types of ICMP traffic to be allowed.

Rules are automatically enforced as soon as you create or modify them.

注: 已通过测试, 修改默认 secgroup 或自定义 secgroup 都可以完成数据访问测试

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova help | grep secgroup
2. add-secgroup        Add a Security Group to a server.
3. list-secgroup       List Security Group(s) of a server.
4. remove-secgroup     Remove a Security Group from a server.
5. secgroup-add-group-rule
6. secgroup-add-rule   Add a rule to a security group.
7. secgroup-create     Create a security group.
8. secgroup-delete     Delete a security group.
9. secgroup-delete-group-rule
10. secgroup-delete-rule
11. secgroup-list       List security groups for the current tenant.
12. secgroup-list-rules
13. secgroup-update     Update a security group.

[root@station140 ~(keystone\_admin)]# nova help | grep secgroup

add-secgroup Add a Security Group to a server.

list-secgroup List Security Group(s) of a server.

remove-secgroup Remove a Security Group from a server.

secgroup-add-group-rule

secgroup-add-rule Add a rule to a security group.

secgroup-create Create a security group.

secgroup-delete Delete a security group.

secgroup-delete-group-rule

secgroup-delete-rule

secgroup-list List security groups for the current tenant.

secgroup-list-rules

secgroup-update Update a security group.

创建自定义安全组

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-create terry "allow ping and ssh"
2. +--------------------------------------+-------+--------------------+
3. | Id                                   | Name  | Description        |
4. +--------------------------------------+-------+--------------------+
5. | 6966a8e4-0980-40ad-a409-baac65b60287 | terry | allow ping and ssh |
6. +--------------------------------------+-------+--------------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-create terry "allow ping and ssh"

+--------------------------------------+-------+--------------------+

| Id | Name | Description |

+--------------------------------------+-------+--------------------+

| 6966a8e4-0980-40ad-a409-baac65b60287 | terry | allow ping and ssh |

+--------------------------------------+-------+--------------------+

列出当前所有安全组

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova  secgroup-list
2. +--------------------------------------+---------+--------------------+
3. | Id                                   | Name    | Description        |
4. +--------------------------------------+---------+--------------------+
5. | 91a191a6-b89e-4f87-99c0-0fb985985978 | default | default            |
6. | 6966a8e4-0980-40ad-a409-baac65b60287 | terry   | allow ping and ssh |
7. +--------------------------------------+---------+--------------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list

+--------------------------------------+---------+--------------------+

| Id | Name | Description |

+--------------------------------------+---------+--------------------+

| 91a191a6-b89e-4f87-99c0-0fb985985978 | default | default |

| 6966a8e4-0980-40ad-a409-baac65b60287 | terry | allow ping and ssh |

+--------------------------------------+---------+--------------------+

列出某个组中的安全规则

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova  secgroup-list-rules default
2. +-------------+-----------+---------+----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range | Source Group |
4. +-------------+-----------+---------+----------+--------------+
5. |             |           |         |          | default      |
6. |             |           |         |          | default      |
7. +-------------+-----------+---------+----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list-rules default

+-------------+-----------+---------+----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+----------+--------------+

| | | | | default |

| | | | | default |

+-------------+-----------+---------+----------+--------------+

增加规则方法 (允许 ping)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry icmp -1 -1 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | icmp        | -1        | -1      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry icmp -1 -1 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| icmp | -1 | -1 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

增加规则方法 (允许 ssh)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry tcp  22 22 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | tcp         | 22        | 22      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry tcp 22 22 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| tcp | 22 | 22 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

增加规则方法 (允许 dns 外部访问)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry udp 53 53 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | udp         | 53        | 53      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule terry udp 53 53 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| udp | 53 | 53 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

列出自定义组规则

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-list-rules terry
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | tcp         | 22        | 22      | 0.0.0.0/0 |              |
6. | udp         | 53        | 53      | 0.0.0.0/0 |              |
7. | icmp        | -1        | -1      | 0.0.0.0/0 |              |
8. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list-rules terry

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| tcp | 22 | 22 | 0.0.0.0/0 | |

| udp | 53 | 53 | 0.0.0.0/0 | |

| icmp | -1 | -1 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

尝试修改 default secgroup  
列出 default secgroup 规则

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-list-rules default
2. +-------------+-----------+---------+----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range | Source Group |
4. +-------------+-----------+---------+----------+--------------+
5. |             |           |         |          | default      |
6. |             |           |         |          | default      |
7. +-------------+-----------+---------+----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list-rules default

+-------------+-----------+---------+----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+----------+--------------+

| | | | | default |

| | | | | default |

+-------------+-----------+---------+----------+--------------+

添加规则 (允许 ping)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default icmp -1 -1 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | icmp        | -1        | -1      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default icmp -1 -1 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| icmp | -1 | -1 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

添加规则 (允许 ssh)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default tcp  22 22 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | tcp         | 22        | 22      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default tcp 22 22 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| tcp | 22 | 22 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

添加规则 (允许 dns外部访问)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default udp 53 53 0.0.0.0/0
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. | udp         | 53        | 53      | 0.0.0.0/0 |              |
6. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-add-rule default udp 53 53 0.0.0.0/0

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| udp | 53 | 53 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

列出默认组规则

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-list-rules default
2. +-------------+-----------+---------+-----------+--------------+
3. | IP Protocol | From Port | To Port | IP Range  | Source Group |
4. +-------------+-----------+---------+-----------+--------------+
5. |             |           |         |           | default      |
6. | icmp        | -1        | -1      | 0.0.0.0/0 |              |
7. | tcp         | 22        | 22      | 0.0.0.0/0 |              |
8. |             |           |         |           | default      |
9. | udp         | 53        | 53      | 0.0.0.0/0 |              |
10. +-------------+-----------+---------+-----------+--------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list-rules default

+-------------+-----------+---------+-----------+--------------+

| IP Protocol | From Port | To Port | IP Range | Source Group |

+-------------+-----------+---------+-----------+--------------+

| | | | | default |

| icmp | -1 | -1 | 0.0.0.0/0 | |

| tcp | 22 | 22 | 0.0.0.0/0 | |

| | | | | default |

| udp | 53 | 53 | 0.0.0.0/0 | |

+-------------+-----------+---------+-----------+--------------+

删除某个实例, 使用中的规则

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19474821)[在CODE上查看代码片](https://code.csdn.net/snippets/194034)

1. nova remove-secgroup terry\_instance1 terry

nova remove-secgroup terry\_instance1 terry

注: 在虚拟机启动后, 无法在增加其他规则[**openstack 命令行管理十二 - 内部网络[instance专用]管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19475231)

ip 帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# nova help | grep ip
2. add-fixed-ip        Add new IP address on a network to server.
3. add-floating-ip     Add a floating IP address to a server.
4. cloudpipe-configure
5. Update the VPN IP/port of a cloudpipe instance.
6. cloudpipe-create    Create a cloudpipe instance for the given project.
7. cloudpipe-list      Print a list of all cloudpipe instances.
8. dns-create          Create a DNS entry for domain, name and ip.
9. dns-list            List current DNS entries for domain and ip or domain
10. fixed-ip-get        Retrieve info on a fixed ip.
11. fixed-ip-reserve    Reserve a fixed IP.
12. fixed-ip-unreserve  Unreserve a fixed IP.
13. floating-ip-bulk-create
14. Bulk create floating ips by range.
15. floating-ip-bulk-delete
16. Bulk delete floating ips by range.
17. floating-ip-bulk-list
18. List all floating ips.
19. floating-ip-create  Allocate a floating IP for the current tenant.
20. floating-ip-delete  De-allocate a floating IP.
21. floating-ip-list    List floating ips for this tenant.
22. floating-ip-pool-list
23. List all floating ip pools.
24. remove-fixed-ip     Remove an IP address from a server.
25. remove-floating-ip  Remove a floating IP address from a server.

[root@station140 ~(keystone\_admin)]# nova help | grep ip

add-fixed-ip Add new IP address on a network to server.

add-floating-ip Add a floating IP address to a server.

cloudpipe-configure

Update the VPN IP/port of a cloudpipe instance.

cloudpipe-create Create a cloudpipe instance for the given project.

cloudpipe-list Print a list of all cloudpipe instances.

dns-create Create a DNS entry for domain, name and ip.

dns-list List current DNS entries for domain and ip or domain

fixed-ip-get Retrieve info on a fixed ip.

fixed-ip-reserve Reserve a fixed IP.

fixed-ip-unreserve Unreserve a fixed IP.

floating-ip-bulk-create

Bulk create floating ips by range.

floating-ip-bulk-delete

Bulk delete floating ips by range.

floating-ip-bulk-list

List all floating ips.

floating-ip-create Allocate a floating IP for the current tenant.

floating-ip-delete De-allocate a floating IP.

floating-ip-list List floating ips for this tenant.

floating-ip-pool-list

List all floating ip pools.

remove-fixed-ip Remove an IP address from a server.

remove-floating-ip Remove a floating IP address from a server.

网络管理帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# nova help | grep network
2. interface-attach    Attach a network interface to an instance.
3. interface-detach    Detach a network interface from an instance.
4. network-associate-host
5. Associate host with network.
6. network-associate-project
7. Associate project with network.
8. network-create      Create a network.
9. network-disassociate
10. network.
11. network-list        Print a list of available networks.
12. network-show        Show details about the given network.
13. reset-network       Reset network of an instance.
14. Add a network interface to a baremetal node.
15. List network interfaces associated with a baremetal
16. Remove a network interface from a baremetal node.
17. net                 Show a network
18. net-create          Create a network
19. net-delete          Delete a network
20. net-list            List networks

[root@station140 ~(keystone\_admin)]# nova help | grep network

interface-attach Attach a network interface to an instance.

interface-detach Detach a network interface from an instance.

network-associate-host

Associate host with network.

network-associate-project

Associate project with network.

network-create Create a network.

network-disassociate

network.

network-list Print a list of available networks.

network-show Show details about the given network.

reset-network Reset network of an instance.

Add a network interface to a baremetal node.

List network interfaces associated with a baremetal

Remove a network interface from a baremetal node.

net Show a network

net-create Create a network

net-delete Delete a network

net-list List networks

显示当前 openstack 网络方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# nova network-list
2. +--------------------------------------+---------+------+
3. | ID                                   | Label   | Cidr |
4. +--------------------------------------+---------+------+
5. | 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd | public  | None |
6. | e8e14001-44d9-4ab1-a462-ea621b8a4746 | private | None |
7. +--------------------------------------+---------+------+

[root@station140 ~(keystone\_admin)]# nova network-list

+--------------------------------------+---------+------+

| ID | Label | Cidr |

+--------------------------------------+---------+------+

| 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd | public | None |

| e8e14001-44d9-4ab1-a462-ea621b8a4746 | private | None |

+--------------------------------------+---------+------+

参考 openstack 官方文档, 在某些旧版本中, 需要利用下面方法创建网络, 当前 H 版本可以不使用下面变量

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. export OS\_USERNAME=admin
2. export OS\_PASSWORD=password
3. export OS\_TENANT\_NAME=admin
4. export OS\_AUTH\_URL=http://localhost:5000/v2.0

export OS\_USERNAME=admin

export OS\_PASSWORD=password

export OS\_TENANT\_NAME=admin

export OS\_AUTH\_URL=http://localhost:5000/v2.0

另外一种列出网络方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(network\_admin)]# neutron net-list
2. +--------------------------------------+---------+------------------------------------------------------+
3. | id                                   | name    | subnets                                              |
4. +--------------------------------------+---------+------------------------------------------------------+
5. | 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd | public  | ce0a4a92-5c23-4557-ad67-97560ab5afa1 172.24.4.224/28 |
6. | e8e14001-44d9-4ab1-a462-ea621b8a4746 | private | 79fdeabd-7f8a-4619-a17d-87864ccdfa80 10.0.0.0/24     |
7. +--------------------------------------+---------+------------------------------------------------------+

[root@station140 ~(network\_admin)]# neutron net-list

+--------------------------------------+---------+------------------------------------------------------+

| id | name | subnets |

+--------------------------------------+---------+------------------------------------------------------+

| 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd | public | ce0a4a92-5c23-4557-ad67-97560ab5afa1 172.24.4.224/28 |

| e8e14001-44d9-4ab1-a462-ea621b8a4746 | private | 79fdeabd-7f8a-4619-a17d-87864ccdfa80 10.0.0.0/24 |

+--------------------------------------+---------+------------------------------------------------------+

显示某个网络详细信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(network\_admin)]# neutron net-show public
2. +---------------------------+--------------------------------------+
3. | Field                     | Value                                |
4. +---------------------------+--------------------------------------+
5. | admin\_state\_up            | True                                 |
6. | id                        | 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd |
7. | name                      | public                               |
8. | provider:network\_type     | local                                |
9. | provider:physical\_network |                                      |
10. | provider:segmentation\_id  |                                      |
11. | router:external           | True                                 |
12. | shared                    | False                                |
13. | status                    | ACTIVE                               |
14. | subnets                   | ce0a4a92-5c23-4557-ad67-97560ab5afa1 |
15. | tenant\_id                 | e3a71a59840c4e88b8740b789c3afb9c     |
16. +---------------------------+--------------------------------------+

[root@station140 ~(network\_admin)]# neutron net-show public

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | 68a1d874-e7bd-42e2-9f86-8eb0b0b4b8fd |

| name | public |

| provider:network\_type | local |

| provider:physical\_network | |

| provider:segmentation\_id | |

| router:external | True |

| shared | False |

| status | ACTIVE |

| subnets | ce0a4a92-5c23-4557-ad67-97560ab5afa1 |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+---------------------------+--------------------------------------+

显示网络 extension 详细信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# neutron ext-list
2. +-----------------------+-----------------------------------------------+
3. | alias                 | name                                          |
4. +-----------------------+-----------------------------------------------+
5. | ext-gw-mode           | Neutron L3 Configurable external gateway mode |
6. | security-group        | security-group                                |
7. | l3\_agent\_scheduler    | L3 Agent Scheduler                            |
8. | provider              | Provider Network                              |
9. | binding               | Port Binding                                  |
10. | quotas                | Quota management support                      |
11. | agent                 | agent                                         |
12. | dhcp\_agent\_scheduler  | DHCP Agent Scheduler                          |
13. | external-net          | Neutron external network                      |
14. | router                | Neutron L3 Router                             |
15. | allowed-address-pairs | Allowed Address Pairs                         |
16. | extra\_dhcp\_opt        | Neutron Extra DHCP opts                       |
17. | extraroute            | Neutron Extra Route                           |
18. +-----------------------+-----------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron ext-list

+-----------------------+-----------------------------------------------+

| alias                 | name                                          |

+-----------------------+-----------------------------------------------+

| ext-gw-mode           | Neutron L3 Configurable external gateway mode |

| security-group        | security-group                                |

| l3\_agent\_scheduler    | L3 Agent Scheduler                            |

| provider              | Provider Network                              |

| binding               | Port Binding                                  |

| quotas                | Quota management support                      |

| agent                 | agent                                         |

| dhcp\_agent\_scheduler  | DHCP Agent Scheduler                          |

| external-net          | Neutron external network                      |

| router                | Neutron L3 Router                             |

| allowed-address-pairs | Allowed Address Pairs                         |

| extra\_dhcp\_opt        | Neutron Extra DHCP opts                       |

| extraroute            | Neutron Extra Route                           |

+-----------------------+-----------------------------------------------+

创建私有网络

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(network\_admin)]# neutron net-create net1
2. Created a new network:
3. +---------------------------+--------------------------------------+
4. | Field                     | Value                                |
5. +---------------------------+--------------------------------------+
6. | admin\_state\_up            | True                                 |
7. | id                        | d0e3f988-d62f-4f95-ab21-b73f4dae326b |
8. | name                      | net1                                 |
9. | provider:network\_type     | local                                |
10. | provider:physical\_network |                                      |
11. | provider:segmentation\_id  |                                      |
12. | shared                    | False                                |
13. | status                    | ACTIVE                               |
14. | subnets                   |                                      |
15. | tenant\_id                 | e3a71a59840c4e88b8740b789c3afb9c     |
16. +---------------------------+--------------------------------------+

[root@station140 ~(network\_admin)]# neutron net-create net1

Created a new network:

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | d0e3f988-d62f-4f95-ab21-b73f4dae326b |

| name | net1 |

| provider:network\_type | local |

| provider:physical\_network | |

| provider:segmentation\_id | |

| shared | False |

| status | ACTIVE |

| subnets | |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+---------------------------+--------------------------------------+

显示 net1 网络详细信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# neutron net-show net1
2. +---------------------------+--------------------------------------+
3. | Field                     | Value                                |
4. +---------------------------+--------------------------------------+
5. | admin\_state\_up            | True                                 |
6. | id                        | d0e3f988-d62f-4f95-ab21-b73f4dae326b |
7. | name                      | net1                                 |
8. | provider:network\_type     | local                                |
9. | provider:physical\_network |                                      |
10. | provider:segmentation\_id  |                                      |
11. | router:external           | False                                |
12. | shared                    | False                                |
13. | status                    | ACTIVE                               |
14. | subnets                   |                                      |
15. | tenant\_id                 | e3a71a59840c4e88b8740b789c3afb9c     |
16. +---------------------------+--------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron net-show net1

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | d0e3f988-d62f-4f95-ab21-b73f4dae326b |

| name | net1 |

| provider:network\_type | local |

| provider:physical\_network | |

| provider:segmentation\_id | |

| router:external | False |

| shared | False |

| status | ACTIVE |

| subnets | |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+---------------------------+--------------------------------------+

创建私网络 net1 的子网

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(network\_admin)]# neutron subnet-create --name terry\_pri\_net1 --allocation-pool start=10.0.0.50,end=10.0.0.100 --no-gateway --ip-version 4  net1 10.0.0.0/24
2. Created a new subnet:
3. +------------------+---------------------------------------------+
4. | Field            | Value                                       |
5. +------------------+---------------------------------------------+
6. | allocation\_pools | {"start": "10.0.0.50", "end": "10.0.0.100"} |
7. | cidr             | 10.0.0.0/24                                  |
8. | dns\_nameservers  |                                             |
9. | enable\_dhcp      | True                                        |
10. | gateway\_ip       |                                             |
11. | host\_routes      |                                             |
12. | id               | 3066c397-bccf-4473-8a94-72b09a97a70a        |
13. | ip\_version       | 4                                           |
14. | name             | terry\_pri\_net1                              |
15. | network\_id       | d0e3f988-d62f-4f95-ab21-b73f4dae326b        |
16. | tenant\_id        | e3a71a59840c4e88b8740b789c3afb9c            |
17. +------------------+---------------------------------------------+

[root@station140 ~(network\_admin)]# neutron subnet-create --name terry\_pri\_net1 --allocation-pool start=10.0.0.50,end=10.0.0.100 --no-gateway --ip-version 4 net1 10.0.0.0/24

Created a new subnet:

+------------------+---------------------------------------------+

| Field | Value |

+------------------+---------------------------------------------+

| allocation\_pools | {"start": "10.0.0.50", "end": "10.0.0.100"} |

| cidr | 10.0.0.0/24 |

| dns\_nameservers | |

| enable\_dhcp | True |

| gateway\_ip | |

| host\_routes | |

| id | 3066c397-bccf-4473-8a94-72b09a97a70a |

| ip\_version | 4 |

| name | terry\_pri\_net1 |

| network\_id | d0e3f988-d62f-4f95-ab21-b73f4dae326b |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+------------------+---------------------------------------------+

显示 net1 网络详细信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19475231)[在CODE上查看代码片](https://code.csdn.net/snippets/194060)

1. [root@station140 ~(keystone\_admin)]# neutron net-show net1
2. +---------------------------+--------------------------------------+
3. | Field                     | Value                                |
4. +---------------------------+--------------------------------------+
5. | admin\_state\_up            | True                                 |
6. | id                        | d0e3f988-d62f-4f95-ab21-b73f4dae326b |
7. | name                      | net1                                 |
8. | provider:network\_type     | local                                |
9. | provider:physical\_network |                                      |
10. | provider:segmentation\_id  |                                      |
11. | router:external           | False                                |
12. | shared                    | False                                |
13. | status                    | ACTIVE                               |
14. | subnets                   | 3066c397-bccf-4473-8a94-72b09a97a70a |
15. | tenant\_id                 | e3a71a59840c4e88b8740b789c3afb9c     |
16. +---------------------------+--------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron net-show net1

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | d0e3f988-d62f-4f95-ab21-b73f4dae326b |

| name | net1 |

| provider:network\_type | local |

| provider:physical\_network | |

| provider:segmentation\_id | |

| router:external | False |

| shared | False |

| status | ACTIVE |

| subnets                   | 3066c397-bccf-4473-8a94-72b09a97a70a |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+---------------------------+--------------------------------------+

注意 net1 中的 subnets values 部分 3066c397-bccf-4473-8a94-72b09a97a70a 显示为 terry\_pri\_net1 中的 ID 值

[**openstack 命令行管理十三 - 外部网络[外部连接专用]管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19476165)

创建公网

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. [root@station140 ~(network\_admin)]# neutron net-create --router:external=true  pub1
2. Created a new network:
3. +---------------------------+--------------------------------------+
4. | Field                     | Value                                |
5. +---------------------------+--------------------------------------+
6. | admin\_state\_up            | True                                 |
7. | id                        | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc |
8. | name                      | pub1                                 |
9. | provider:network\_type     | local                                |
10. | provider:physical\_network |                                      |
11. | provider:segmentation\_id  |                                      |
12. | router:external           | True                                 |
13. | shared                    | False                                |
14. | status                    | ACTIVE                               |
15. | subnets                   |                                      |
16. | tenant\_id                 | e3a71a59840c4e88b8740b789c3afb9c     |
17. +---------------------------+--------------------------------------+

[root@station140 ~(network\_admin)]# neutron net-create --router:external=true pub1

Created a new network:

+---------------------------+--------------------------------------+

| Field | Value |

+---------------------------+--------------------------------------+

| admin\_state\_up | True |

| id | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc |

| name | pub1 |

| provider:network\_type | local |

| provider:physical\_network | |

| provider:segmentation\_id | |

| router:external | True |

| shared | False |

| status | ACTIVE |

| subnets | |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+---------------------------+--------------------------------------+

注: 参数 --router:external=true 表示创建的是公网网络

查询公网网络信息

**[html]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. [root@station140 ~(keystone\_admin)]# nova network-list | grep pub1
2. +--------------------------------------+---------+------+
3. | ID                                   | Label   | Cidr |
4. +--------------------------------------+---------+------+
5. | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc | pub1    | None |
6. +--------------------------------------+---------+------+

[root@station140 ~(keystone\_admin)]# nova network-list | grep pub1

+--------------------------------------+---------+------+

| ID | Label | Cidr |

+--------------------------------------+---------+------+

| aebe75f0-6013-4a5e-bbd9-cb81e1f017bc | pub1 | None |

+--------------------------------------+---------+------+

############ 注意 ##########  
把该 id (aebe75f0-6013-4a5e-bbd9-cb81e1f017bc) 定义到  /etc/neutron/l3\_agent.ini

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. gateway\_external\_network\_id = aebe75f0-6013-4a5e-bbd9-cb81e1f017bc
2. handle\_internal\_only\_routers = True
3. external\_network\_id = aebe75f0-6013-4a5e-bbd9-cb81e1f017bc
4. external\_network\_bridge = br-ex

gateway\_external\_network\_id = aebe75f0-6013-4a5e-bbd9-cb81e1f017bc

handle\_internal\_only\_routers = True

external\_network\_id = aebe75f0-6013-4a5e-bbd9-cb81e1f017bc

external\_network\_bridge = br-ex

重启服务

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. /etc/init.d/neutron-l3-agent restart

/etc/init.d/neutron-l3-agent restart

注: 上述问题可解决 内部网络 中 ROUTE 显示为 DOWN 状态

############ 注意 ##########

创建子网

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. neutron subnet-create --name terry\_pub\_net1 --allocation-pool start=192.168.48.142,end=192.168.48.148 --gateway 192.168.48.1 --dns-nameserver 192.168.86.37 --enable\_dhcp=False --ip-version 4  pub1 192.168.48.0/24
2. Created a new subnet:
3. +------------------+------------------------------------------------------+
4. | Field            | Value                                                |
5. +------------------+------------------------------------------------------+
6. | allocation\_pools | {"start": "192.168.48.142", "end": "192.168.48.148"} |
7. | cidr             | 192.168.48.0/24                                      |
8. | dns\_nameservers  | 192.168.86.37                                        |
9. | enable\_dhcp      | False                                                |
10. | gateway\_ip       | 192.168.48.1                                         |
11. | host\_routes      |                                                      |
12. | id               | 59cc431b-498e-49a0-bc60-4a8ca1ca6f48                 |
13. | ip\_version       | 4                                                    |
14. | name             | terry\_pub\_net1                                       |
15. | network\_id       | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc                 |
16. | tenant\_id        | e3a71a59840c4e88b8740b789c3afb9c                     |
17. +------------------+------------------------------------------------------+

neutron subnet-create --name terry\_pub\_net1 --allocation-pool start=192.168.48.142,end=192.168.48.148 --gateway 192.168.48.1 --dns-nameserver 192.168.86.37 --enable\_dhcp=False --ip-version 4 pub1 192.168.48.0/24

Created a new subnet:

+------------------+------------------------------------------------------+

| Field | Value |

+------------------+------------------------------------------------------+

| allocation\_pools | {"start": "192.168.48.142", "end": "192.168.48.148"} |

| cidr | 192.168.48.0/24 |

| dns\_nameservers | 192.168.86.37 |

| enable\_dhcp | False |

| gateway\_ip | 192.168.48.1 |

| host\_routes | |

| id | 59cc431b-498e-49a0-bc60-4a8ca1ca6f48 |

| ip\_version | 4 |

| name | terry\_pub\_net1 |

| network\_id | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

+------------------+------------------------------------------------------+

删除网络方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. neutron net-delete pub1

neutron net-delete pub1

查询外部网络

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19476165)[在CODE上查看代码片](https://code.csdn.net/snippets/194068)

1. [root@station140 ~(network\_admin)]# nova floating-ip-pool-list
2. +--------+
3. | name   |
4. +--------+
5. | public |
6. | pub1   | <- 注: 假如 neutron net-create 不带 --router:external=true 参数, 则代表网络为内部网络
7. +--------+
8. [**openstack 命令行管理十四 - 路由管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19477551)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(network\_admin)]# neutron help | grep route
2. l3-agent-list-hosting-router   List L3 agents hosting a router.
3. l3-agent-router-add            Add a router to a L3 agent.
4. l3-agent-router-remove         Remove a router from a L3 agent.
5. net-gateway-connect            Add an internal network interface to a router.
6. router-create                  Create a router for a given tenant.
7. router-delete                  Delete a given router.
8. router-gateway-clear           Remove an external network gateway from a router.
9. router-gateway-set             Set the external network gateway for a router.
10. router-interface-add           Add an internal network interface to a router.
11. router-interface-delete        Remove an internal network interface from a router.
12. router-list                    List routers that belong to a given tenant.
13. router-list-on-l3-agent        List the routers on a L3 agent.
14. router-port-list               List ports that belong to a given tenant, with specified router.
15. router-show                    Show information of a given router.
16. router-update                  Update router's information.

[root@station140 ~(network\_admin)]# neutron help | grep route

l3-agent-list-hosting-router List L3 agents hosting a router.

l3-agent-router-add Add a router to a L3 agent.

l3-agent-router-remove Remove a router from a L3 agent.

net-gateway-connect Add an internal network interface to a router.

router-create Create a router for a given tenant.

router-delete Delete a given router.

router-gateway-clear Remove an external network gateway from a router.

router-gateway-set Set the external network gateway for a router.

router-interface-add Add an internal network interface to a router.

router-interface-delete Remove an internal network interface from a router.

router-list List routers that belong to a given tenant.

router-list-on-l3-agent List the routers on a L3 agent.

router-port-list List ports that belong to a given tenant, with specified router.

router-show Show information of a given router.

router-update Update router's information.

查询 tenant

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(network\_admin)]#  keystone tenant-list
2. +----------------------------------+----------+---------+
3. |                id                |   name   | enabled |
4. +----------------------------------+----------+---------+
5. | 9467f30b8bba4770a06a687e4584636b |  cloud   |   True  |
6. +----------------------------------+----------+---------+

[root@station140 ~(network\_admin)]# keystone tenant-list

+----------------------------------+----------+---------+

| id | name | enabled |

+----------------------------------+----------+---------+

| 9467f30b8bba4770a06a687e4584636b | cloud | True |

+----------------------------------+----------+---------+

创建路由连接到外部网络, 这个路由可以与内部网络进行连接  
你可以创建过程中指定一个 tenant, 利用参数 --tenant-id 9467f30b8bba4770a06a687e4584636b 进行定义

创建路由

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. neutron router-create ext-to-int --tenant-id 9467f30b8bba4770a06a687e4584636b
2. Created a new router:
3. +-----------------------+--------------------------------------+
4. | Field                 | Value                                |
5. +-----------------------+--------------------------------------+
6. | admin\_state\_up        | True                                 |
7. | external\_gateway\_info |                                      |
8. | id                    | b83f43cd-bf8f-42f8-812a-708c2c372820 |
9. | name                  | ext-to-int                           |
10. | status                | ACTIVE                               |
11. | tenant\_id             | 9467f30b8bba4770a06a687e4584636b     |
12. +-----------------------+--------------------------------------+

neutron router-create ext-to-int --tenant-id 9467f30b8bba4770a06a687e4584636b

Created a new router:

+-----------------------+--------------------------------------+

| Field | Value |

+-----------------------+--------------------------------------+

| admin\_state\_up | True |

| external\_gateway\_info | |

| id | b83f43cd-bf8f-42f8-812a-708c2c372820 |

| name | ext-to-int |

| status | ACTIVE |

| tenant\_id | 9467f30b8bba4770a06a687e4584636b |

+-----------------------+--------------------------------------+

查询方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1
2. +--------------------------------------+------------+------------------------+
3. | id                                   | name       | external\_gateway\_info  |
4. +--------------------------------------+------------+------------------------+
5. | b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | null                   |
6. +--------------------------------------+------------+------------------------+

[root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1

+--------------------------------------+------------+------------------------+

| id | name | external\_gateway\_info |

+--------------------------------------+------------+------------------------+

| b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | null |

+--------------------------------------+------------+------------------------+

查询外部网络

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron net-list | grep pub1
2. +--------------------------------------+---------+------------------------------------------------------+
3. | id                                   | name    | subnets                                              |
4. +--------------------------------------+---------+------------------------------------------------------+
5. | aebe75f0-6013-4a5e-bbd9-cb81e1f017bc | pub1    | 59cc431b-498e-49a0-bc60-4a8ca1ca6f48 192.168.48.0/24 |
6. +--------------------------------------+---------+------------------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron net-list | grep pub1

+--------------------------------------+---------+------------------------------------------------------+

| id | name | subnets |

+--------------------------------------+---------+------------------------------------------------------+

| aebe75f0-6013-4a5e-bbd9-cb81e1f017bc | pub1 | 59cc431b-498e-49a0-bc60-4a8ca1ca6f48 192.168.48.0/24 |

+--------------------------------------+---------+------------------------------------------------------+

连接路由到外部网络, 设定外部网络网关

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. # neutron router-gateway-set b83f43cd-bf8f-42f8-812a-708c2c372820 aebe75f0-6013-4a5e-bbd9-cb81e1f017bc
3. [root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1
4. +--------------------------------------+------------+-----------------------------------------------------------------------------+
5. | id                                   | name       | external\_gateway\_info                                                       |
6. +--------------------------------------+------------+-----------------------------------------------------------------------------+
7. | b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |
8. +--------------------------------------+------------+-----------------------------------------------------------------------------+

# neutron router-gateway-set b83f43cd-bf8f-42f8-812a-708c2c372820 aebe75f0-6013-4a5e-bbd9-cb81e1f017bc

[root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| id | name | external\_gateway\_info |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

列出子网信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron subnet-list | grep terry
2. +--------------------------------------+----------------+-----------------+------------------------------------------------------+
3. | id                                   | name           | cidr            | allocation\_pools                                     |
4. +--------------------------------------+----------------+-----------------+------------------------------------------------------+
5. | 3066c397-bccf-4473-8a94-72b09a97a70a | terry\_pri\_net1 | 10.0.0.0/8      | {"start": "10.0.0.50", "end": "10.0.0.100"}          |
6. | 59cc431b-498e-49a0-bc60-4a8ca1ca6f48 | terry\_pub\_net1 | 192.168.48.0/24 | {"start": "192.168.48.142", "end": "192.168.48.148"} |
7. +--------------------------------------+----------------+-----------------+------------------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron subnet-list | grep terry

+--------------------------------------+----------------+-----------------+------------------------------------------------------+

| id | name | cidr | allocation\_pools |

+--------------------------------------+----------------+-----------------+------------------------------------------------------+

| 3066c397-bccf-4473-8a94-72b09a97a70a | terry\_pri\_net1 | 10.0.0.0/8 | {"start": "10.0.0.50", "end": "10.0.0.100"} |

| 59cc431b-498e-49a0-bc60-4a8ca1ca6f48 | terry\_pub\_net1 | 192.168.48.0/24 | {"start": "192.168.48.142", "end": "192.168.48.148"} |

+--------------------------------------+----------------+-----------------+------------------------------------------------------+

创建内部网络路由接口

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(network\_admin)]# neutron router-interface-add b83f43cd-bf8f-42f8-812a-708c2c372820 3066c397-bccf-4473-8a94-72b09a97a70a
2. Added interface c9566299-44ed-4924-b845-4fc48bd4de98bbfe84a2-508e-47a1-a664-27b2e8121893 to router b83f43cd-bf8f-42f8-812a-708c2c372820.

[root@station140 ~(network\_admin)]# neutron router-interface-add b83f43cd-bf8f-42f8-812a-708c2c372820 3066c397-bccf-4473-8a94-72b09a97a70a

Added interface c9566299-44ed-4924-b845-4fc48bd4de98bbfe84a2-508e-47a1-a664-27b2e8121893 to router b83f43cd-bf8f-42f8-812a-708c2c372820.

显示路由信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-show b83f43cd-bf8f-42f8-812a-708c2c372820
2. +-----------------------+-----------------------------------------------------------------------------+
3. | Field                 | Value                                                                       |
4. +-----------------------+-----------------------------------------------------------------------------+
5. | admin\_state\_up        | True                                                                        |
6. | external\_gateway\_info | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |
7. | id                    | b83f43cd-bf8f-42f8-812a-708c2c372820                                        |
8. | name                  | ext-to-int                                                                  |
9. | routes                |                                                                             |
10. | status                | ACTIVE                                                                      |
11. | tenant\_id             | 9467f30b8bba4770a06a687e4584636b                                            |
12. +-----------------------+-----------------------------------------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron router-show b83f43cd-bf8f-42f8-812a-708c2c372820

+-----------------------+-----------------------------------------------------------------------------+

| Field | Value |

+-----------------------+-----------------------------------------------------------------------------+

| admin\_state\_up | True |

| external\_gateway\_info | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |

| id | b83f43cd-bf8f-42f8-812a-708c2c372820 |

| name | ext-to-int |

| routes | |

| status | ACTIVE |

| tenant\_id | 9467f30b8bba4770a06a687e4584636b |

+-----------------------+-----------------------------------------------------------------------------+

移除路由接口 (interface)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-interface-delete b83f43cd-bf8f-42f8-812a-708c2c372820 3066c397-bccf-4473-8a94-72b09a97a70a
2. Removed interface from router b83f43cd-bf8f-42f8-812a-708c2c372820

[root@station140 ~(keystone\_admin)]# neutron router-interface-delete b83f43cd-bf8f-42f8-812a-708c2c372820 3066c397-bccf-4473-8a94-72b09a97a70a

Removed interface from router b83f43cd-bf8f-42f8-812a-708c2c372820

移除路由的默认网关  
查询

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-list | grep network | grep ext-to-int
2. +--------------------------------------+------------+-----------------------------------------------------------------------------+
3. | id                                   | name       | external\_gateway\_info                                                       |
4. +--------------------------------------+------------+-----------------------------------------------------------------------------+
5. | b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |
6. +--------------------------------------+------------+-----------------------------------------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron router-list | grep network | grep ext-to-int

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| id | name | external\_gateway\_info |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

当 external\_gateway\_info 则表示具有默认网关

删除网关接口

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-gateway-clear b83f43cd-bf8f-42f8-812a-708c2c372820
2. Removed gateway from router b83f43cd-bf8f-42f8-812a-708c2c372820

[root@station140 ~(keystone\_admin)]# neutron router-gateway-clear b83f43cd-bf8f-42f8-812a-708c2c372820

Removed gateway from router b83f43cd-bf8f-42f8-812a-708c2c372820

下面显示为不具备网关的路由

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-list | grep ext-to-int
2. +--------------------------------------+------------+-----------------------+
3. | id                                   | name       | external\_gateway\_info |
4. +--------------------------------------+------------+-----------------------+
5. | b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | null          |
6. +--------------------------------------+------------+-----------------------+

[root@station140 ~(keystone\_admin)]# neutron router-list | grep ext-to-int

+--------------------------------------+------------+-----------------------+

| id | name | external\_gateway\_info |

+--------------------------------------+------------+-----------------------+

| b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | null |

+--------------------------------------+------------+-----------------------+

删除路由

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19477551)[在CODE上查看代码片](https://code.csdn.net/snippets/194129)

1. [root@station140 ~(keystone\_admin)]# neutron router-delete b83f43cd-bf8f-42f8-812a-708c2c372820
2. Deleted router: b83f43cd-bf8f-42f8-812a-708c2c372820
3. [**openstack 命令行管理十五 - 浮动 IP 管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19478001)

帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478001)[在CODE上查看代码片](https://code.csdn.net/snippets/194137)

1. [root@station140 ~(keystone\_admin)]# nova help | grep float
2. add-floating-ip     Add a floating IP address to a server.
3. floating-ip-bulk-create
4. Bulk create floating ips by range.
5. floating-ip-bulk-delete
6. Bulk delete floating ips by range.
7. floating-ip-bulk-list
8. List all floating ips.
9. floating-ip-create  Allocate a floating IP for the current tenant.
10. floating-ip-delete  De-allocate a floating IP.
11. floating-ip-list    List floating ips for this tenant.
12. floating-ip-pool-list
13. List all floating ip pools.
14. remove-floating-ip  Remove a floating IP address from a server.

[root@station140 ~(keystone\_admin)]# nova help | grep float

add-floating-ip Add a floating IP address to a server.

floating-ip-bulk-create

Bulk create floating ips by range.

floating-ip-bulk-delete

Bulk delete floating ips by range.

floating-ip-bulk-list

List all floating ips.

floating-ip-create Allocate a floating IP for the current tenant.

floating-ip-delete De-allocate a floating IP.

floating-ip-list List floating ips for this tenant.

floating-ip-pool-list

List all floating ip pools.

remove-floating-ip Remove a floating IP address from a server.

生成 浮动 IP

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478001)[在CODE上查看代码片](https://code.csdn.net/snippets/194137)

1. [root@station140 ~(keystone\_admin)]# nova floating-ip-create pub1
2. +----------------+-------------+----------+------+
3. | Ip             | Instance Id | Fixed Ip | Pool |
4. +----------------+-------------+----------+------+
5. | 192.168.48.143 | None        | None     | pub1 |
6. +----------------+-------------+----------+------+

[root@station140 ~(keystone\_admin)]# nova floating-ip-create pub1

+----------------+-------------+----------+------+

| Ip | Instance Id | Fixed Ip | Pool |

+----------------+-------------+----------+------+

| 192.168.48.143 | None | None | pub1 |

+----------------+-------------+----------+------+

分配

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478001)[在CODE上查看代码片](https://code.csdn.net/snippets/194137)

1. [root@station140 ~(network\_admin)]# nova add-floating-ip terry\_instance1 192.168.48.143

[root@station140 ~(network\_admin)]# nova add-floating-ip terry\_instance1 192.168.48.143

查询浮动 IP 分配情况

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478001)[在CODE上查看代码片](https://code.csdn.net/snippets/194137)

1. [root@station140 ~(keystone\_admin)]# nova floating-ip-list
2. +----------------+--------------------------------------+-----------+------+
3. | Ip             | Instance Id                          | Fixed Ip  | Pool |
4. +----------------+--------------------------------------+-----------+------+
5. | 192.168.48.143 | 93d0c9c1-b38b-4fe3-9ae3-400f43276f60 | 10.0.0.50 | pub1 |
6. +----------------+--------------------------------------+-----------+------+

[root@station140 ~(keystone\_admin)]# nova floating-ip-list

+----------------+--------------------------------------+-----------+------+

| Ip | Instance Id | Fixed Ip | Pool |

+----------------+--------------------------------------+-----------+------+

| 192.168.48.143 | 93d0c9c1-b38b-4fe3-9ae3-400f43276f60 | 10.0.0.50 | pub1 |

+----------------+--------------------------------------+-----------+------+

移除浮动 IP

**[html]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478001)[在CODE上查看代码片](https://code.csdn.net/snippets/194137)

1. [root@station140 ~(keystone\_admin)]# nova floating-ip-delete 192.168.48.143
2. [**openstack 命令行管理十六 - 网络测试 (备忘)**](http://blog.csdn.net/signmem/article/details/19478209)

注: 192.168.48.142 为 floating ip   
ping 测试

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ping 192.168.48.142
2. PING 192.168.48.142 (192.168.48.142) 56(84) bytes of data.
3. 64 bytes from 192.168.48.142: icmp\_seq=1 ttl=63 time=1.61 ms

[root@station140 ~(keystone\_admin)]# ping 192.168.48.142

PING 192.168.48.142 (192.168.48.142) 56(84) bytes of data.

64 bytes from 192.168.48.142: icmp\_seq=1 ttl=63 time=1.61 ms

ssh 测试

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ssh 192.168.48.142
2. The authenticity of host '192.168.48.142 (192.168.48.142)' can't be established.
3. RSA key fingerprint is 7f:cc:6e:22:e4:39:99:6a:4c:de:4a:82:df:e9:1c:6c.
4. Are you sure you want to continue connecting (yes/no)?

[root@station140 ~(keystone\_admin)]# ssh 192.168.48.142

The authenticity of host '192.168.48.142 (192.168.48.142)' can't be established.

RSA key fingerprint is 7f:cc:6e:22:e4:39:99:6a:4c:de:4a:82:df:e9:1c:6c.

Are you sure you want to continue connecting (yes/no)?

ip netns 空间测试方法

查询路由方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1
2. +--------------------------------------+------------+-----------------------------------------------------------------------------+
3. | id                                   | name       | external\_gateway\_info                                                       |
4. +--------------------------------------+------------+-----------------------------------------------------------------------------+
5. | b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |
6. +--------------------------------------+------------+-----------------------------------------------------------------------------+

[root@station140 ~(keystone\_admin)]# neutron router-list | grep -v router1

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| id | name | external\_gateway\_info |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

| b83f43cd-bf8f-42f8-812a-708c2c372820 | ext-to-int | {"network\_id": "aebe75f0-6013-4a5e-bbd9-cb81e1f017bc", "enable\_snat": true} |

+--------------------------------------+------------+-----------------------------------------------------------------------------+

列出网络命名空间

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ip netns
2. qrouter-59fa152c-df2e-43e4-9d09-7b89fb9cce5d
3. qdhcp-dc121f2d-1b3b-471f-8fe7-15ef973b949e
4. qrouter-99859660-68fe-4be4-835a-073a05da6533
5. qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820
6. qdhcp-d0e3f988-d62f-4f95-ab21-b73f4dae326b
7. qdhcp-e8e14001-44d9-4ab1-a462-ea621b8a4746

[root@station140 ~(keystone\_admin)]# ip netns

qrouter-59fa152c-df2e-43e4-9d09-7b89fb9cce5d

qdhcp-dc121f2d-1b3b-471f-8fe7-15ef973b949e

qrouter-99859660-68fe-4be4-835a-073a05da6533

qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820

qdhcp-d0e3f988-d62f-4f95-ab21-b73f4dae326b

qdhcp-e8e14001-44d9-4ab1-a462-ea621b8a4746

利用网络命名空间进行操作例 1

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ip netns exec qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820 ip addr list
2. 32: lo: <LOOPBACK,UP,LOWER\_UP> mtu 16436 qdisc noqueue state UNKNOWN
3. link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
4. inet 127.0.0.1/8 scope host lo
5. inet6 ::1/128 scope host
6. valid\_lft forever preferred\_lft forever
7. 33: qg-5a8b8f30-f5: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN
8. link/ether fa:16:3e:6f:b7:1c brd ff:ff:ff:ff:ff:ff
9. inet 192.168.48.143/24 brd 192.168.48.255 scope global qg-5a8b8f30-f5
10. inet 192.168.48.142/32 brd 192.168.48.142 scope global qg-5a8b8f30-f5
11. inet6 fe80::f816:3eff:fe6f:b71c/64 scope link
12. valid\_lft forever preferred\_lft forever
13. 34: qr-bbfe84a2-50: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN
14. link/ether fa:16:3e:1c:fd:1e brd ff:ff:ff:ff:ff:ff
15. inet 10.0.0.1/8 brd 10.255.255.255 scope global qr-bbfe84a2-50
16. inet6 fe80::f816:3eff:fe1c:fd1e/64 scope link
17. valid\_lft forever preferred\_lft forever

[root@station140 ~(keystone\_admin)]# ip netns exec qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820 ip addr list

32: lo: <LOOPBACK,UP,LOWER\_UP> mtu 16436 qdisc noqueue state UNKNOWN

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

33: qg-5a8b8f30-f5: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

link/ether fa:16:3e:6f:b7:1c brd ff:ff:ff:ff:ff:ff

inet 192.168.48.143/24 brd 192.168.48.255 scope global qg-5a8b8f30-f5

inet 192.168.48.142/32 brd 192.168.48.142 scope global qg-5a8b8f30-f5

inet6 fe80::f816:3eff:fe6f:b71c/64 scope link

valid\_lft forever preferred\_lft forever

34: qr-bbfe84a2-50: <BROADCAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UNKNOWN

link/ether fa:16:3e:1c:fd:1e brd ff:ff:ff:ff:ff:ff

inet 10.0.0.1/8 brd 10.255.255.255 scope global qr-bbfe84a2-50

inet6 fe80::f816:3eff:fe1c:fd1e/64 scope link

valid\_lft forever preferred\_lft forever

利用网络命名空间进行操作例 2

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ip netns exec qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820 ping 192.168.48.142
2. PING 192.168.48.142 (192.168.48.142) 56(84) bytes of data.
3. 64 bytes from 192.168.48.142: icmp\_seq=1 ttl=64 time=2.01 ms
4. ^C
5. --- 192.168.48.142 ping statistics ---
6. 1 packets transmitted, 1 received, 0% packet loss, time 615ms
7. rtt min/avg/max/mdev = 2.013/2.013/2.013/0.000 ms

[root@station140 ~(keystone\_admin)]# ip netns exec qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820 ping 192.168.48.142

PING 192.168.48.142 (192.168.48.142) 56(84) bytes of data.

64 bytes from 192.168.48.142: icmp\_seq=1 ttl=64 time=2.01 ms

^C

--- 192.168.48.142 ping statistics ---

1 packets transmitted, 1 received, 0% packet loss, time 615ms

rtt min/avg/max/mdev = 2.013/2.013/2.013/0.000 ms

利用网络命名空间进行操作例 3

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19478209)[在CODE上查看代码片](https://code.csdn.net/snippets/194151)

1. [root@station140 ~(keystone\_admin)]# ip netns exec qrouter-b83f43cd-bf8f-42f8-812a-708c2c372820 ping 10.0.0.50
2. PING 10.0.0.50 (10.0.0.50) 56(84) bytes of data.
3. 64 bytes from 10.0.0.50: icmp\_seq=1 ttl=64 time=2.27 ms
4. [**openstack 命令行管理十七 - 宿主主机管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19512899)

帮助信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19512899)[在CODE上查看代码片](https://code.csdn.net/snippets/195609)

1. [root@station140 ~(keystone\_admin)]# nova help | grep hyper
2. hypervisor-list     List hypervisors.
3. hypervisor-servers  List instances belonging to specific hypervisors.
4. hypervisor-show     Display the details of the specified hypervisor.
5. hypervisor-stats    Get hypervisor statistics over all compute nodes.
6. hypervisor-uptime   Display the uptime of the specified hypervisor.

[root@station140 ~(keystone\_admin)]# nova help | grep hyper

hypervisor-list List hypervisors.

hypervisor-servers List instances belonging to specific hypervisors.

hypervisor-show Display the details of the specified hypervisor.

hypervisor-stats Get hypervisor statistics over all compute nodes.

hypervisor-uptime Display the uptime of the specified hypervisor.

查询物理服务器

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19512899)[在CODE上查看代码片](https://code.csdn.net/snippets/195609)

1. nova hypervisor-list
2. +----+----------------------+
3. | ID | Hypervisor hostname  |
4. +----+----------------------+
5. | 1  | station140.cloud.com |
6. +----+----------------------+

nova hypervisor-list

+----+----------------------+

| ID | Hypervisor hostname |

+----+----------------------+

| 1 | station140.cloud.com |

+----+----------------------+

显示某个物理主机详细信息方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19512899)[在CODE上查看代码片](https://code.csdn.net/snippets/195609)

1. nova hypervisor-show station140.cloud.com
2. +----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+
3. | Property             | Value                                                                                                                                                                                                                   |
4. +----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+
5. | hypervisor\_hostname  | station140.cloud.com                                                                                                                                                                                                    |
6. | cpu\_info             | {"vendor": "Intel", "model": "Westmere", "arch": "x86\_64", "features": ["rdtscp", "hypervisor", "avx", "osxsave", "xsave", "vmx", "pclmuldq", "ss", "ds", "vme"], "topology": {"cores": 1, "threads": 1, "sockets": 2}} |
7. | free\_disk\_gb         | -5                                                                                                                                                                                                                      |
8. | hypervisor\_version   | 12001                                                                                                                                                                                                                   |
9. | disk\_available\_least | -18                                                                                                                                                                                                                     |
10. | local\_gb             | 15                                                                                                                                                                                                                      |
11. | free\_ram\_mb          | 5312                                                                                                                                                                                                                    |
12. | id                   | 1                                                                                                                                                                                                                       |
13. | vcpus\_used           | 1                                                                                                                                                                                                                       |
14. | hypervisor\_type      | QEMU                                                                                                                                                                                                                    |
15. | local\_gb\_used        | 20                                                                                                                                                                                                                      |
16. | memory\_mb\_used       | 2560                                                                                                                                                                                                                    |
17. | memory\_mb            | 7872                                                                                                                                                                                                                    |
18. | current\_workload     | 0                                                                                                                                                                                                                       |
19. | vcpus                | 2                                                                                                                                                                                                                       |
20. | running\_vms          | 1                                                                                                                                                                                                                       |
21. | service\_id           | 4                                                                                                                                                                                                                       |
22. | service\_host         | station140.cloud.com                                                                                                                                                                                                    |
23. +----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+

nova hypervisor-show station140.cloud.com

+----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+

| Property             | Value                                                                                                                                                                                                                   |

+----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+

| hypervisor\_hostname  | station140.cloud.com                                                                                                                                                                                                    |

| cpu\_info             | {"vendor": "Intel", "model": "Westmere", "arch": "x86\_64", "features": ["rdtscp", "hypervisor", "avx", "osxsave", "xsave", "vmx", "pclmuldq", "ss", "ds", "vme"], "topology": {"cores": 1, "threads": 1, "sockets": 2}} |

| free\_disk\_gb         | -5                                                                                                                                                                                                                      |

| hypervisor\_version   | 12001                                                                                                                                                                                                                   |

| disk\_available\_least | -18                                                                                                                                                                                                                     |

| local\_gb             | 15                                                                                                                                                                                                                      |

| free\_ram\_mb          | 5312                                                                                                                                                                                                                    |

| id                   | 1                                                                                                                                                                                                                       |

| vcpus\_used           | 1                                                                                                                                                                                                                       |

| hypervisor\_type      | QEMU                                                                                                                                                                                                                    |

| local\_gb\_used        | 20                                                                                                                                                                                                                      |

| memory\_mb\_used       | 2560                                                                                                                                                                                                                    |

| memory\_mb            | 7872                                                                                                                                                                                                                    |

| current\_workload     | 0                                                                                                                                                                                                                       |

| vcpus                | 2                                                                                                                                                                                                                       |

| running\_vms          | 1                                                                                                                                                                                                                       |

| service\_id           | 4                                                                                                                                                                                                                       |

| service\_host         | station140.cloud.com                                                                                                                                                                                                    |

+----------------------+-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------+

显示某个主机当前使用的资源方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19512899)[在CODE上查看代码片](https://code.csdn.net/snippets/195609)

1. [root@station140 ~(keystone\_admin)]# nova hypervisor-stats
2. +----------------------+-------+
3. | Property             | Value |
4. +----------------------+-------+
5. | count                | 1     |
6. | vcpus\_used           | 0     |
7. | local\_gb\_used        | 0     |
8. | memory\_mb            | 7872  |
9. | current\_workload     | 0     |
10. | vcpus                | 2     |
11. | running\_vms          | 0     |
12. | free\_disk\_gb         | 15    |
13. | disk\_available\_least | 7     |
14. | local\_gb             | 15    |
15. | free\_ram\_mb          | 7360  |
16. | memory\_mb\_used       | 512   |
17. +----------------------+-------+
18. [**openstack 命令行管理十八 - instance管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19513299)

相关帮助

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova boot
2. usage: nova boot [--flavor <flavor>] [--image <image>]
3. [--image-with <key=value>] [--boot-volume <volume\_id>]
4. [--snapshot <snapshot\_id>] [--num-instances <number>]
5. [--meta <key=value>] [--file <dst-path=src-path>]
6. [--key-name <key-name>] [--user-data <user-data>]
7. [--availability-zone <availability-zone>]
8. [--security-groups <security-groups>]
9. [--block-device-mapping <dev-name=mapping>]
10. [--block-device key1=value1[,key2=value2...]]
11. [--swap <swap\_size>]
12. [--ephemeral size=<size>[,format=<format>]]
13. [--hint <key=value>]
14. [--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,port-id=port-uuid>]
15. [--config-drive <value>] [--poll]
16. <name>

[root@station140 ~(keystone\_admin)]# nova boot

usage: nova boot [--flavor <flavor>] [--image <image>]

[--image-with <key=value>] [--boot-volume <volume\_id>]

[--snapshot <snapshot\_id>] [--num-instances <number>]

[--meta <key=value>] [--file <dst-path=src-path>]

[--key-name <key-name>] [--user-data <user-data>]

[--availability-zone <availability-zone>]

[--security-groups <security-groups>]

[--block-device-mapping <dev-name=mapping>]

[--block-device key1=value1[,key2=value2...]]

[--swap <swap\_size>]

[--ephemeral size=<size>[,format=<format>]]

[--hint <key=value>]

[--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,port-id=port-uuid>]

[--config-drive <value>] [--poll]

<name>

列出flavor-list

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova flavor-list | grep -E 'ID|computer|-'
2. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
3. | ID | Name         | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |
4. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+
5. | 6  | m1.vcomputer | 2048      | 20   | 0         |      | 1     | 1.0         | True      |
6. +----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

[root@station140 ~(keystone\_admin)]# nova flavor-list | grep -E 'ID|computer|-'

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| ID | Name | Memory\_MB | Disk | Ephemeral | Swap | VCPUs | RXTX\_Factor | Is\_Public |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

| 6 | m1.vcomputer | 2048 | 20 | 0 | | 1 | 1.0 | True |

+----+--------------+-----------+------+-----------+------+-------+-------------+-----------+

列出镜像命名

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]#  glance image-list | grep -v "+" | awk '{printf "%-35s %25s\n",  $2,$4}'
2. ID                                                       Name
3. 2aad80bf-6fbb-4348-bb20-2c07dbf4f687          centos5.8\_x86\_64
4. 2d6bb00d-002f-4675-ba84-73d90fdc1020                    cirros

[root@station140 ~(keystone\_admin)]# glance image-list | grep -v "+" | awk '{printf "%-35s %25s\n", $2,$4}'

ID Name

2aad80bf-6fbb-4348-bb20-2c07dbf4f687 centos5.8\_x86\_64

2d6bb00d-002f-4675-ba84-73d90fdc1020 cirros

等价命令

**[html]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. nova image-list | grep -v "+" | awk '{printf "%-35s %25s\n",  $2,$4}'

nova image-list | grep -v "+" | awk '{printf "%-35s %25s\n", $2,$4}'

列出 keypair

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova keypair-list
2. +----------+-------------------------------------------------+
3. | Name     | Fingerprint                                     |
4. +----------+-------------------------------------------------+
5. | terrykey | 94:b8:9c:2a:31:8c:2c:87:7f:f5:80:24:23:73:f8:e9 |
6. +----------+-------------------------------------------------+

[root@station140 ~(keystone\_admin)]# nova keypair-list

+----------+-------------------------------------------------+

| Name | Fingerprint |

+----------+-------------------------------------------------+

| terrykey | 94:b8:9c:2a:31:8c:2c:87:7f:f5:80:24:23:73:f8:e9 |

+----------+-------------------------------------------------+

列出 secgroup

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova secgroup-list
2. +--------------------------------------+---------+--------------------+
3. | Id                                   | Name    | Description        |
4. +--------------------------------------+---------+--------------------+
5. | 91a191a6-b89e-4f87-99c0-0fb985985978 | default | default            |
6. | 6966a8e4-0980-40ad-a409-baac65b60287 | terry   | allow ping and ssh |
7. +--------------------------------------+---------+--------------------+

[root@station140 ~(keystone\_admin)]# nova secgroup-list

+--------------------------------------+---------+--------------------+

| Id | Name | Description |

+--------------------------------------+---------+--------------------+

| 91a191a6-b89e-4f87-99c0-0fb985985978 | default | default |

| 6966a8e4-0980-40ad-a409-baac65b60287 | terry | allow ping and ssh |

+--------------------------------------+---------+--------------------+

启动第一个实例 (只有一个网卡)

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova boot --flavor m1.vcomputer --image centos5.8\_x86\_64 --key-name terrykey --security-groups terry --nic net-id=d0e3f988-d62f-4f95-ab21-b73f4dae326b terry\_instance1
2. +--------------------------------------+--------------------------------------+
3. | Property                             | Value                                |
4. +--------------------------------------+--------------------------------------+
5. | OS-EXT-STS:task\_state                | scheduling                           |
6. | image                                | centos5.8\_x86\_64                     |
7. | OS-EXT-STS:vm\_state                  | building                             |
8. | OS-EXT-SRV-ATTR:instance\_name        | instance-00000006                    |
9. | OS-SRV-USG:launched\_at               | None                                 |
10. | flavor                               | m1.vcomputer                         |
11. | id                                   | 3760f47f-1b56-4429-a046-f77fb6d50d1a |
12. | security\_groups                      | [{u'name': u'terry'}]                |
13. | user\_id                              | 9b3904aef3f84d6b9432989f0e0e0194     |
14. | OS-DCF:diskConfig                    | MANUAL                               |
15. | accessIPv4                           |                                      |
16. | accessIPv6                           |                                      |
17. | progress                             | 0                                    |
18. | OS-EXT-STS:power\_state               | 0                                    |
19. | OS-EXT-AZ:availability\_zone          | nova                                 |
20. | config\_drive                         |                                      |
21. | status                               | BUILD                                |
22. | updated                              | 2014-02-17T06:09:24Z                 |
23. | hostId                               |                                      |
24. | OS-EXT-SRV-ATTR:host                 | None                                 |
25. | OS-SRV-USG:terminated\_at             | None                                 |
26. | key\_name                             | terrykey                             |
27. | OS-EXT-SRV-ATTR:hypervisor\_hostname  | None                                 |
28. | name                                 | terry\_instance1                      |
29. | adminPass                            | eQMSKUvs7oem                         |
30. | tenant\_id                            | e3a71a59840c4e88b8740b789c3afb9c     |
31. | created                              | 2014-02-17T06:09:24Z                 |
32. | os-extended-volumes:volumes\_attached | []                                   |
33. | metadata                             | {}                                   |
34. +--------------------------------------+--------------------------------------+

[root@station140 ~(keystone\_admin)]# nova boot --flavor m1.vcomputer --image centos5.8\_x86\_64 --key-name terrykey --security-groups terry --nic net-id=d0e3f988-d62f-4f95-ab21-b73f4dae326b terry\_instance1

+--------------------------------------+--------------------------------------+

| Property | Value |

+--------------------------------------+--------------------------------------+

| OS-EXT-STS:task\_state | scheduling |

| image | centos5.8\_x86\_64 |

| OS-EXT-STS:vm\_state | building |

| OS-EXT-SRV-ATTR:instance\_name | instance-00000006 |

| OS-SRV-USG:launched\_at | None |

| flavor | m1.vcomputer |

| id | 3760f47f-1b56-4429-a046-f77fb6d50d1a |

| security\_groups | [{u'name': u'terry'}] |

| user\_id | 9b3904aef3f84d6b9432989f0e0e0194 |

| OS-DCF:diskConfig | MANUAL |

| accessIPv4 | |

| accessIPv6 | |

| progress | 0 |

| OS-EXT-STS:power\_state | 0 |

| OS-EXT-AZ:availability\_zone | nova |

| config\_drive | |

| status | BUILD |

| updated | 2014-02-17T06:09:24Z |

| hostId | |

| OS-EXT-SRV-ATTR:host | None |

| OS-SRV-USG:terminated\_at | None |

| key\_name | terrykey |

| OS-EXT-SRV-ATTR:hypervisor\_hostname | None |

| name | terry\_instance1 |

| adminPass | eQMSKUvs7oem |

| tenant\_id | e3a71a59840c4e88b8740b789c3afb9c |

| created | 2014-02-17T06:09:24Z |

| os-extended-volumes:volumes\_attached | [] |

| metadata | {} |

+--------------------------------------+--------------------------------------+

下面显示为虚拟机创建中

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(keystone\_admin)]# nova list
2. +--------------------------------------+-----------------+--------+------------+-------------+----------------+
3. | ID                                   | Name            | Status | Task State | Power State | Networks       |
4. +--------------------------------------+-----------------+--------+------------+-------------+----------------+
5. | 93d0c9c1-b38b-4fe3-9ae3-400f43276f60 | terry\_instance1 | BUILD  | spawning   | NOSTATE     | net1=10.0.0.50 |
6. +--------------------------------------+-----------------+--------+------------+-------------+----------------+

[root@station140 ~(keystone\_admin)]# nova list

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

| ID | Name | Status | Task State | Power State | Networks |

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

| 93d0c9c1-b38b-4fe3-9ae3-400f43276f60 | terry\_instance1 | BUILD | spawning | NOSTATE | net1=10.0.0.50 |

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

下面显示为正常运行中的 instance

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 ~(network\_admin)]# nova list
2. +--------------------------------------+-----------------+--------+------------+-------------+----------------+
3. | ID                                   | Name            | Status | Task State | Power State | Networks       |
4. +--------------------------------------+-----------------+--------+------------+-------------+----------------+
5. | 3760f47f-1b56-4429-a046-f77fb6d50d1a | terry\_instance1 | ACTIVE | None       | Running     | net1=10.0.0.50 |
6. +--------------------------------------+-----------------+--------+------------+-------------+----------------+

[root@station140 ~(network\_admin)]# nova list

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

| ID | Name | Status | Task State | Power State | Networks |

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

| 3760f47f-1b56-4429-a046-f77fb6d50d1a | terry\_instance1 | ACTIVE | None | Running | net1=10.0.0.50 |

+--------------------------------------+-----------------+--------+------------+-------------+----------------+

列出主机部分信息

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513299)[在CODE上查看代码片](https://code.csdn.net/snippets/195613)

1. [root@station140 /(keystone\_admin)]# nova list  --fields "networks,name,status" --name terry\_instance1
2. +--------------------------------------+--------------------------------+-----------------+--------+
3. | ID                                   | Networks                       | Name            | Status |
4. +--------------------------------------+--------------------------------+-----------------+--------+
5. | f76bd659-da1d-482a-b74d-08b67b95c113 | net1=10.0.0.50, 192.168.48.142 | terry\_instance1 | ACTIVE |
6. +--------------------------------------+--------------------------------+-----------------+--------+

[root@station140 /(keystone\_admin)]# nova list --fields "networks,name,status" --name terry\_instance1

+--------------------------------------+--------------------------------+-----------------+--------+

| ID | Networks | Name | Status |

+--------------------------------------+--------------------------------+-----------------+--------+

| f76bd659-da1d-482a-b74d-08b67b95c113 | net1=10.0.0.50, 192.168.48.142 | terry\_instance1 | ACTIVE |

+--------------------------------------+--------------------------------+-----------------+--------+

注: fields 需使用小写进行定义

[**openstack 命令行管理十九 - 日志管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19513525)

instance 终端以日志方式输出方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513525)[在CODE上查看代码片](https://code.csdn.net/snippets/195615)

1. [root@station140 ~(network\_admin)]# nova  console-log  --length 80 terry\_instance1 | tail
2. Starting atd: [  OK  ][  OK  ]
3. Starting yum-updatesd: [  OK  ]
4. Failed to retrieve hostname from instance metadata.  This is a soft error so we'll continue
5. Failed to retrieve user-data from instance metadata.  This is a soft error so we'll continue
6. Starting smartd: [  OK  ]
8. CentOS release 5.8 (Final)
9. Kernel 2.6.18-308.el5 on an x86\_64
11. host-10-0-0-50 login:
12. [**openstack 命令行管理二十 - instance novnc 访问管理 (备忘)**](http://blog.csdn.net/signmem/article/details/19513623)

查询实例访问方法

**[plain]** [view plaincopyprint?](http://blog.csdn.net/signmem/article/details/19513623)[在CODE上查看代码片](https://code.csdn.net/snippets/195617)

1. [root@station140 nova(keystone\_admin)]# nova get-vnc-console terry\_instance1 novnc
2. +-------+-------------------------------------------------------------------------------------+
3. | Type  | Url                                                                                 |
4. +-------+-------------------------------------------------------------------------------------+
5. | novnc | http://192.168.48.140:6080/vnc\_auto.html?token=ee1931a2-35ed-4e04-901b-47bf60e7576d |
6. +-------+-------------------------------------------------------------------------------------+

[root@station140 nova(keystone\_admin)]# nova get-vnc-console terry\_instance1 novnc

+-------+-------------------------------------------------------------------------------------+

| Type | Url |

+-------+-------------------------------------------------------------------------------------+

| novnc | http://192.168.48.140:6080/vnc\_auto.html?token=ee1931a2-35ed-4e04-901b-47bf60e7576d |

+-------+-------------------------------------------------------------------------------------+

上述 URL 可通过 chrome 进行访问,  IE 估计有问题