# 1 cinder

|  |  |  |
| --- | --- | --- |
| volume | cinder list | List all volumes |
| cinder create --name test --volume-type –metadata <metadata type=…> <volume type> 1 | Create volume |
| cinder show <volume> | show detail information of volume |
| cinder delete <volume ID>\<volume name> | Delete volume |
| cinder credentials | Shows user credentials returned from auth. |
| snapshot | cinder snapshot-list | Lists all snapshots. |
| cinder snapshot-create | Creates a snapshot. |
|  | cinder service-list | 列出所有服务 |
|  | cinder type-list | 列出所有volumes类型 |
|  | cinder snapshot-list | 列出所有快照snapshot |
|  | cinder backup-list | 列出所有备份backup |
|  | cinder qos-list | 列出所有qos |
|  | cinder transfor-list | 列出所有transfer |
|  | cinder list-extensions | 列出所有扩展extensions |

# 2 glance

|  |  |  |
| --- | --- | --- |
| image | glance image-list | list all image |
| glance image-create --name image1 --disk-format qcow2 --container-format bare --file /home/cirros-0.3.4-x86\_64-disk.img | Create image |
| glance image-delete <image id> | Delete image |

# 3 nova

|  |  |  |
| --- | --- | --- |
| list | nova service-list | List all service |
| nova endpoints | List all endpoints |
| nova flavor-list | List all cloud host type |
| instance | nova boot –flavor m1.tiny –image <image id> --nic net-id=<network id> <instance name> | Create cloud host instance |
| nova list | list all cloud host instance |
| nova delete <instance name or id> | Delete instance |
| image | nova image-list | List all image |
| nova image-create [--show] [--poll] <server> <name> | Create a new image by taking a snapshot of a running server |
| nova image-delete <image> | Delete a specified images |
| nova image-show <image> | Show details about the given image |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 4 neutron

|  |  |  |
| --- | --- | --- |
| net | Neutron net-create <network name> | Create a network |
| Neutron net-delete <network name> | Delete a network |
| Neutron net-show <network name> | Show details about specified network |
| router | Neutron router-create <router name> | Create a router |
| gateway | Neutron router-gateway-set <router name> <network name> | Set the default gateway for a router |
|  |  |  |
|  |  |  |
|  |  |  |

# 5 keystone

# 6 openstack

## 6.1 租户操作命令

|  |  |
| --- | --- |
| 展示租户 | openstack project list |
| 创建租户 | openstack project create –description ‘demon project’ mydemoproject |
| 禁用租户 | openstack project set projectid --disable |
| 启用租户 | openstack project set projectid --enable |
| 更新租户名称 | openstack project set projectid --name newproject |
| 显示租户信息 | openstack project show projectid |
| 删除租户 | openstack project delete projectid |

## 6.2 用户操作命令

|  |  |
| --- | --- |
| 展示所有用户 | openstack user list |
| 创建用户 | openstack user create --password-prompt mydemouser |
| 禁用用户 | openstack user set mydemouser --disable |
| 启用用户 | openstack user set mydemouser --enable |
| 更新用户名称 | openstack user set mydemouser --name newmydemouser |
| 删除用户 | openstack user delete newmydemouser |

## 6.3 openstack role

|  |  |
| --- | --- |
| 展示所有角色 | openstack role list |
| 创建角色 | openstack role create newmyrole |
| 分配角色 | openstack role add --user myuser --project projectid myrole |
| 确认操作结果 | openstack role list --user myuser --project demo |
| 删除角色 | openstack role remove --user myuser --project projectid myrole |

## 6.4 服务操作命令

|  |  |
| --- | --- |
| 查询服务 | openstack service list |
| 创建服务 | openstack service create --name neutron --description “openstack networking” network |
| 创建api endpoint | openstack endpoint create --region regionone network public http://controller:9696 |
|  |  |

# 7 netstatus

netstat command is a tools for monitor tcp/ip network, it can demonstrate route table, actual network connection and the status information for network interface device.

|  |  |
| --- | --- |
| netstat -a | list all port |
| netstat –at | list all tcp port |
| netstat -au | list all udp port |
| netstat -l | display all monitor port |
| netstat -lt | display all monitor tcp port |
| netstat -lu | display all monitor udp port |

# 8 systemd

common commands:

|  |  |
| --- | --- |
| unit operation | |
| 立即激活单元 | systemctl start <unit> |
| 立即停止单元 | systemctl stop <unit> |
| 重启单元 | systemctl restart <unit> |
| 命令单元重新读取配置 | systemctl reload <unit> |
| 输出单元运行状态 | systemctl status <unit> |
| 检查单元是否配置为自动启动 | systemctl is-enabled |
| 开机自动激活单元 | systemctl enable <unit> |
| 取消开机自动激活单元 | systemctl disable <unit> |
| 显示单元手册 | systemctl help |
| 重新载入systemmd，扫描新的或有变动的单元 | systemctl daemon-reload |
| power manager (polkit) | |
| reboot system | systemctl reboot |
| exit system and shutdown power | systemctl poweroff |
| suspend | systemctl suspend |
| sleep | systemctl hibernate |
| hybrid sleep mode | systemctl hybrid-sleep |

# 9 nova

## 9.1 主机硬件配置模板命令

|  |  |
| --- | --- |
| 显示所有硬件配置模板 | nova flavor-list |
| 创建主机类型 | #计算组件 模板创建 模板名称 id 内存(mb) 硬盘(gb) cpu个数  nova flavor-create minflavor 1000 512 5 1 |

## 9.2 管理安全组

作用：安全组是ip过滤规则的集合，控制对虚拟机实例的访问。可用于租户内的所有虚拟机实例。

默认：所有租户有默认安全组，可以指定其他安全组。默认安全组会拒绝对虚拟机实例内的访问，允许虚拟机向外访问

同一网络的主机节点，可以在/etc/nova/nova.conf文件中定义allow\_same\_net\_traffic参数共享相同

安全组规则。

查看安全组：

加载环境变量

source openrcadmin admin

显示所有安全组： 计算组件 安全组列表

novasecgroup-list

显示安全组内所有规则： 计算组件 安全组列表规则 默认

novasecgroup-list-rules default

创建安全组： 计算组件 安全组创建 组名描述

novasecgroup-create allgranted "allow all visited"

添加安全组规则： 计算组件 安全组添加规则 安全组名称 ip协议 源端口 目的端口 cidr

novasecgroup-add-rule allgranted tcp 80 80 0.0.0.0/24

查看规则是否设置成功: 计算组件 安全组列表规则 安全组名称

novasecgroup-list-rules allgranted

删除安全组：计算组件 安全组删除 组名

novasecgroup-delete allgranted

## 9.3 资源使用率统计

|  |  |
| --- | --- |
| 展示主机节点及其nova服务 | nova host-list |
| 主机节点资源使用率统计信息 | novahost-describe localhost.localdomain |

## 9.4 实例使用率统计

|  |  |
| --- | --- |
| 显示所有实例信息 | nova list |
| 实例诊断信息 | nova diagnostics myinstance |
| 查询每个租户下的资源统计信息 | nova usage-list |

# 10 rabbitmqctl

|  |  |
| --- | --- |
| 更改密码 | rabbitmqctl change\_password openstack rabbitmq |
|  |  |
|  |  |

# 11 sysctl

|  |  |
| --- | --- |
| 使得写入sysctl.conf文件的配置立即生效 | sysctl -p |
|  |  |

# 12 pcs

|  |  |
| --- | --- |
| pcs status | 列出集群的所有服务 |
|  |  |
|  |  |
|  |  |
|  |  |