Openstack v10(CL-210课程) 02

2018年3月7日

22:03

Keystone (Identtity Service)

提供用户认证,基于角色的授权,策略管理,令牌管理,目录服务。

登陆workstation主机执行如下命令:

[student@workstation ~]\$ source admin-rc

[student@workstation ~(admin-admin)]\$ openstack user list

[student@workstation ~(admin-admin)]\$ openstack role list

[student@workstation ~(admin-admin)]\$ openstack role assignment list \

> --user admin --project admin

[student@workstation ~(admin-admin)]\$ openstack endpoint list

[student@workstation ~(admin-admin)]\$ openstack endpoint show nova

/etc/keystone/policy.json (说明什么角色可以做什么事情)

keystone会为访问者提高令牌,以方便用户访问其他Openstack组件,但当令牌过期后,默认Openstack不会删除过期的令牌,这会让数据库变的很大,并且降低性能。

建议定期清空过期令牌(红帽通过计划任务默认一天清理一次,建议修改为1小时一次):

[root@overcloud-controller-0 cron]# cat /var/spool/cron/keystone

Puppet Name: keystone-manage token_flush

PATH=/bin:/usr/bin:/usr/sbinSHELL=/bin/sh

10*** sleep `expr \${RANDOM} \% 3600`; keystone-manage token_flush >>/dev/null 2>&1

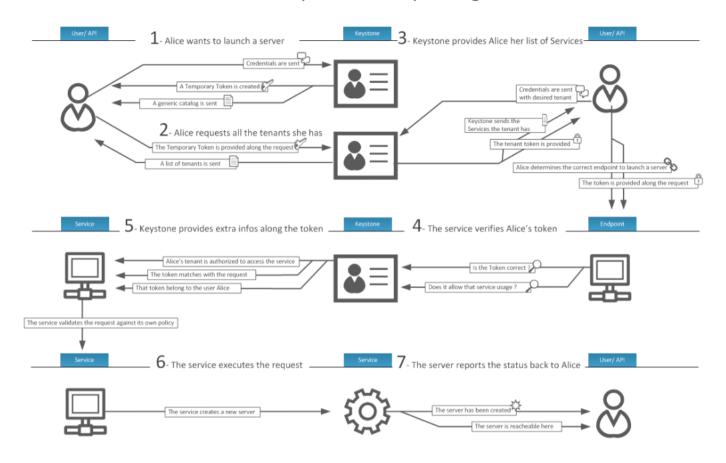
[heat-admin@overcloud-controller-0 ~]\$ openstack endpoint show nova

Field	Value
adminurl enabled id internalurl publicurl region service_id service_name service type	http://172.24.1.50:8774/v2.1 True 3f08aa5465d74d489c7fae485f7999f0 http://172.24.1.50:8774/v2.1 http://172.25.250.50:8774/v2.1 regionOne 368e72387b4c4dffa0c14d5b88aa8f4f nova compute

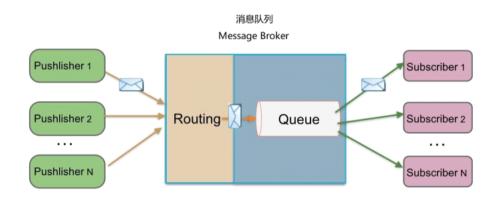
[heat-admin@overcloud-controller-0 ~]\$ openstack catalog show nova

+	-	H
Field	Value	
endpoints 	regionOne publicURL: http://172.25.250.50:8774/v2.1 internalURL: http://172.24.1.50:8774/v2.1 adminURL: http://172.24.1.50:8774/v2.1	
name	nova	
type	compute	-
-		

The Keystone Identity Manager



消息队列 (RabbitMQ)



消息队列模型:

点对点模型(一对一的消息队列)queue

发布订阅模型(1人生产消息,允许多人订阅消息)topic

概念:

术语	描述

Publisher/Producer	发布消息的应用
Consumer	接受处理消息的应用
Exchange	接受发布者发来的消息,发布到消息队列中去
Queues	存储消息的队列
Binding	连接Exchange与Queues
Routing Key	让Exchange决定如何路由消息(哪些消息存储在哪些队列)
Message broker	消息队列服务器 (允许生产者和消费者发送和接受消息) 的应用程序

```
登陆workstation初始化实验环境
    [student@workstation ~]$ lab communication-msg-brokering setup
登陆Director主机,进行消息队列实验:
    [stack@director ~]$ sudo -i
                                                                                  //切换用户root
    [root@director ~]# rabbitmqctl report | head
                                                                                  //查看rabbit状态
    Reporting server status on {{2018,3,7},{22,1,23}}
    [root@director ~]# rabbitmqctl help
    [root@director ~]# rabbitmqctl add user rabbitmqauth redhat
                                                                                  //创建账户与密码(redhat)
    Creating user "rabbitmqauth" ...
    [root@director ~]# rabbitmqctl help | grep set permission
    [root@director ~]# rabbitmqctl set permissions rabbitmqauth ".*" ".*" ".*"
                                                                                 //为用户配置权限
    Setting permissions for user "rabbitmqauth" in vhost "/" ...
    //设置config配置、write写、read读的权限,可以使用通配符允许所有,允许配置所有,写所有,读所有
    [root@director ~]# rabbitmqctl set user tags rabbitmqauth administrator
                                                                                //为账户配置管理员权限,管理后台
    Setting tags for user "rabbitmqauth" to [administrator]...
    [root@director ~]# cat .rabbitmgadmin.conf
                                                                  //确认root家目录有该隐藏文件,内容如下
    [default]
    hostname = 172.25.249.200
    port = 15672
    username = rabbitmqauth
    password = redhat
                                                                           //查看账户列表
    [root@director ~]# rabbitmqctl list users
    Listing users ...
    6cddb42684255b8f135c3729b2bdee2ca72943d1
                                               [administrator]
    rabbitmqauth [administrator]
    [root@director ~]# rabbitmqadmin help subcommands
                                                                         //查看帮助
    [root@director ~]# rabbitmqadmin-c .rabbitmqadmin.conf declare exchange name=cl210.topic type=topic
    exchange declared
    //使用declare创建Exchange, 名称为cl210.topic, 类型为topic (发布订阅模型)
    //rabbitmqadmin是python脚本
    [root@director ~]# rabbitmqctl list_exchanges |grep cl210
    //查看exchange
    [root@director ~]# rabbitmgadmin -c .rabbitmgadmin.conf declare queue name=redhat.queue
    queue declared
    //创建消息队列queue
    [root@director ~]# rabbitmqctl list queues |grep redhat
    [root@director ~]# rabbitmqadmin-c .rabbitmqadmin.conf \
    > publish routing_key=redhat.queue payload="a message"
    Message published
    //发布消息到redhat.gueue队列,信息内容为: a message
```

```
[root@director ~]# rabbitmgadmin-c.rabbitmgadmin.conf \
> publish routing key=redhat.queue payload="another message"
Message published
//发布消息到redhat.queue队列,信息内容为: another message
[root@director ~]# rabbitmqadmin -c .rabbitmqadmin.conf publish routing key=redhat.queue
message line1
message line2
message line3
Ctrl+D
Message published
//不使用payload,程序等待多行输入,输入完成后,Ctrl+D结束输入
[root@director ~]# rabbitmqctl list_queues |grep redhat
redhat.queue 3
//查看消息队列中有3条消息
[root@director ~]# rabbitmqadmin-c .rabbitmqadmin.conf \
> get queue=redhat.queue
//查看1条消息
[root@director ~]# rabbitmqadmin -c .rabbitmqadmin.conf get queue=redhat.queue count=3
//查看所有3条消息
[root@director ~]# rabbitmqadmin -c .rabbitmqadmin.conf delete queue name=redhat.queue
```

登陆workstation清除实验环境

[student@workstation ~]\$ lab communication-msg-brokering cleanup