实验 RDO 安装 OpenStack

OpenStack 主机部署极为繁琐且耗时较长，为快速构建 OpenStack 学习环境可使用 RDO 提供的一键安装方式。

环境: 6CPU、16G RAM，CentOS 7 主机　1 台

软件：使用 RDO 提供的 packstack 安装 OpenStack。

官方文档：https://www.rdoproject.org/install/

OpenStack 测试地址

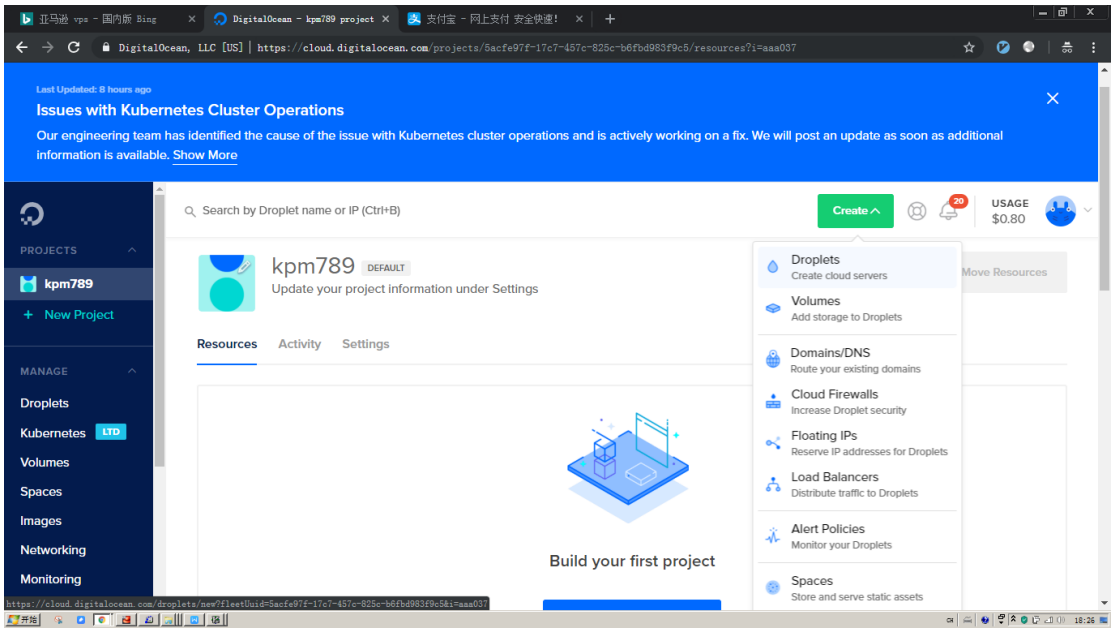
http://159.89.194.139/dashboard

user:admin

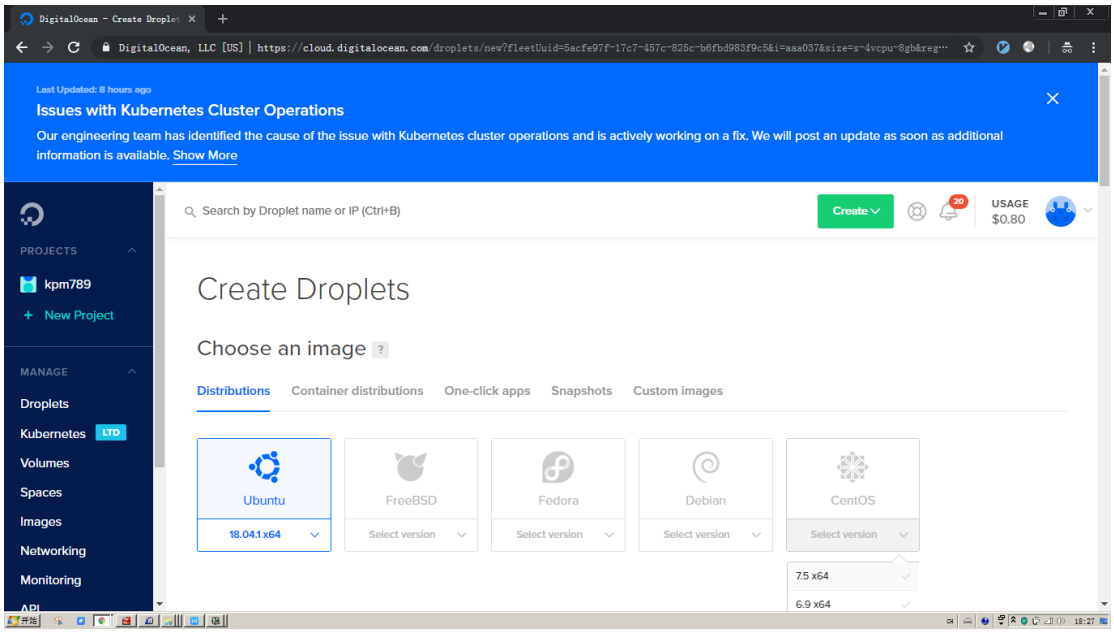
pass:711edcf7abce48de

实验步骤一：准备云主机（6CPU，16G 内存，位于新加坡，价格$0.119/小时）

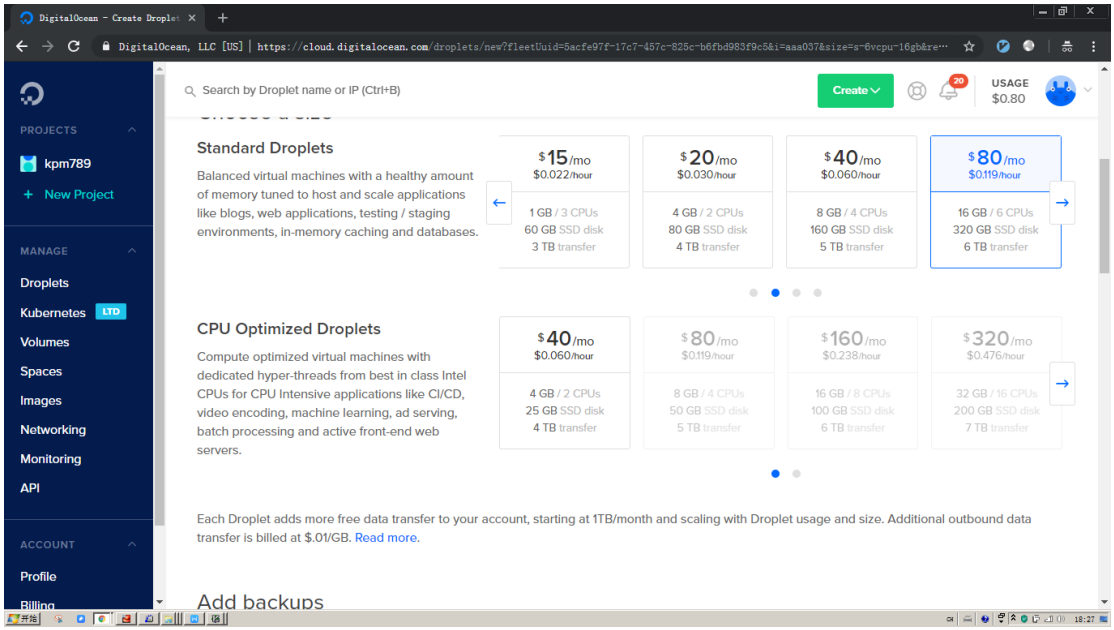
登录 DigitalOcean 云平台



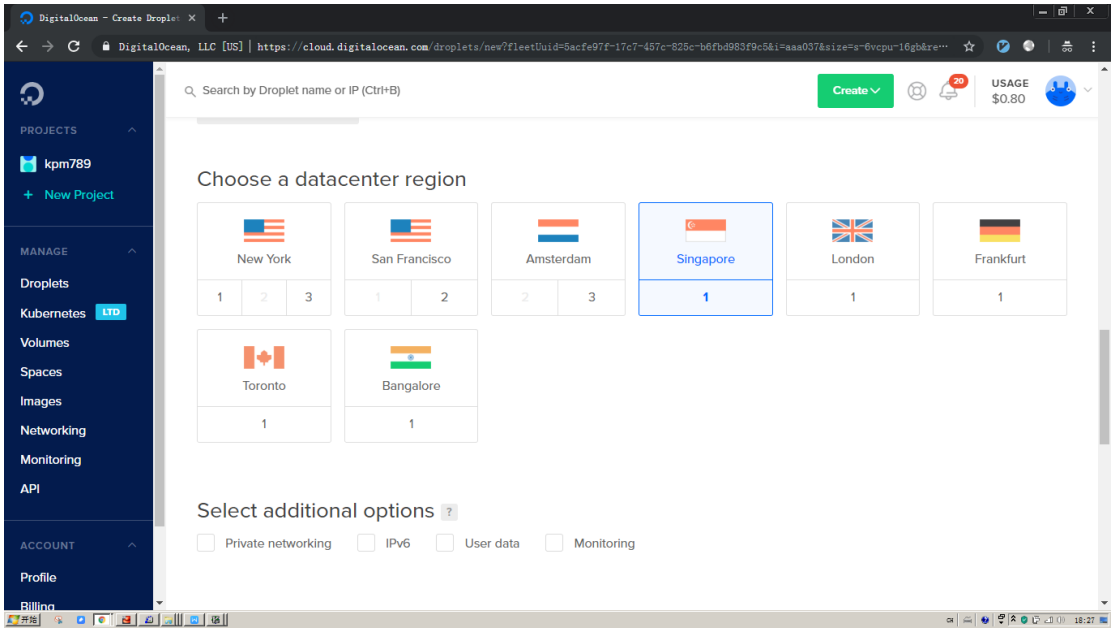
选择云主机操作系统



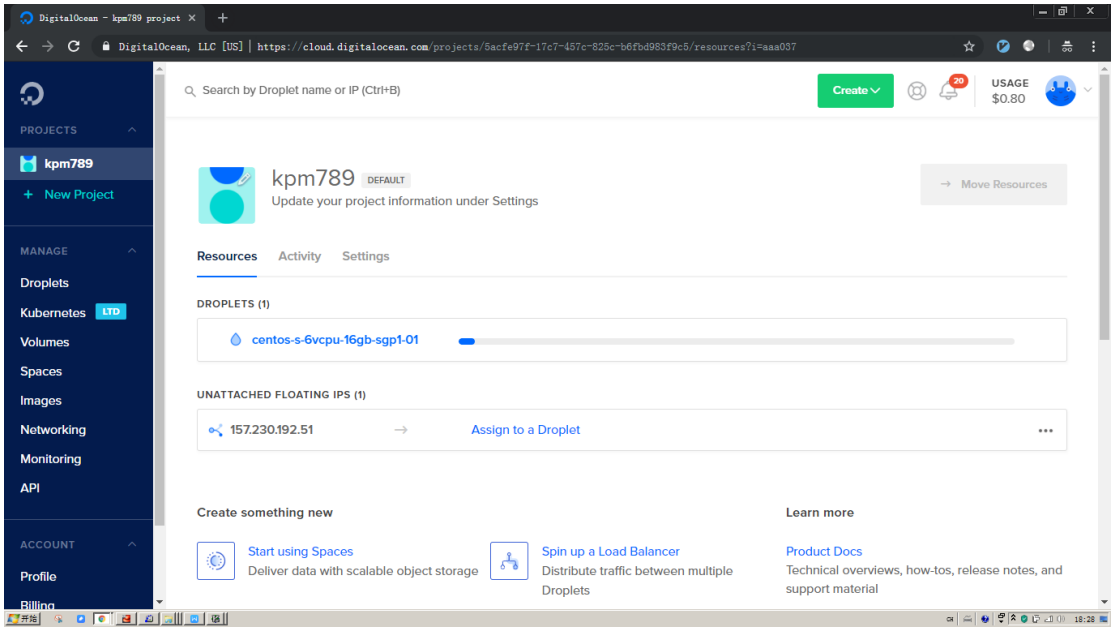
选择云主机规格



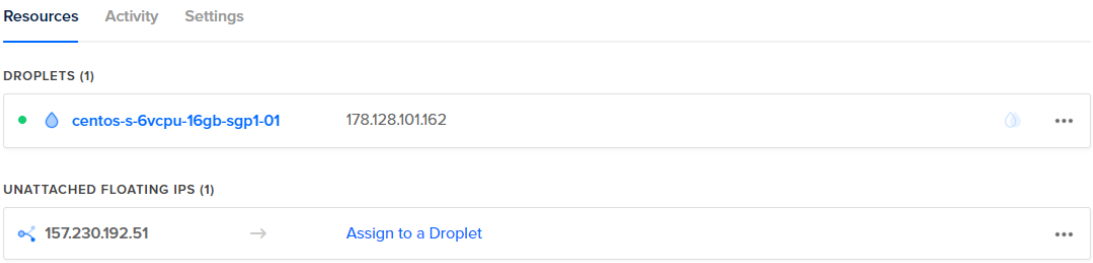
选择云主机所在地域

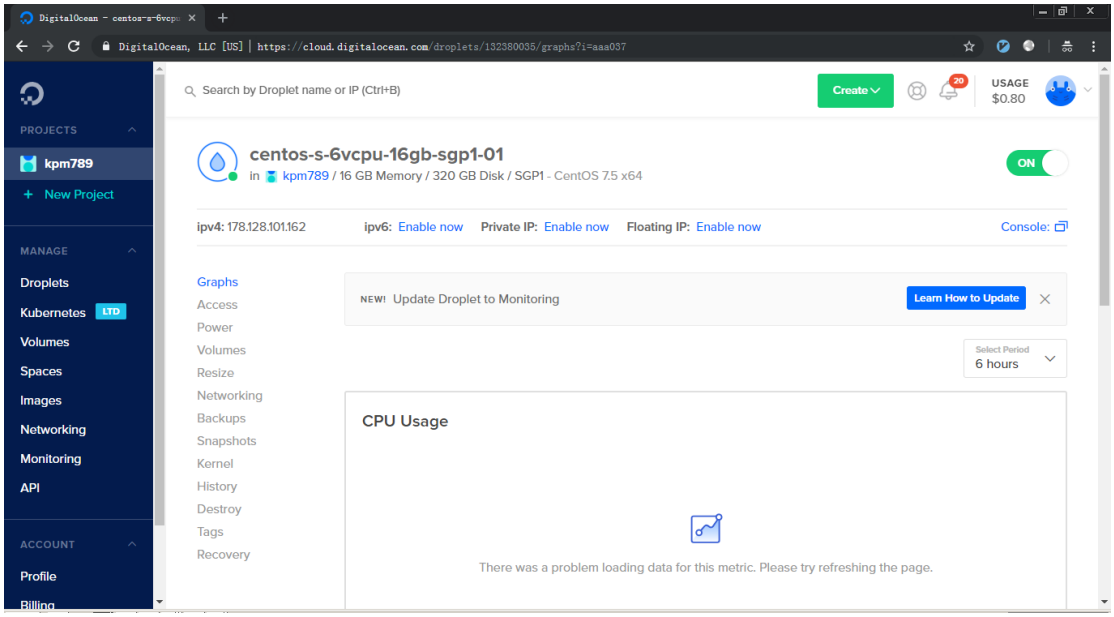


创建云主机



云主机创建成功




DigitalOcean - centos-s-6vcp
DigitalOcean, LLC [US] | https://cloud.digitalocean.com/droplets/132380035/graphs?i=aaa037
Search by Droplet name or IP (Ctrl+B)
Create
20
USAGE
$0.80
PROJECTS
kpm789
New Project
MANAGE
Droplets
Kubernetes
LTD
Volumes
Spaces
Images
Networking
Monitoring
API
ACCOUNT
Profile
Billing
centos-s-6vcpu-16gb-sgp1-01
in kpm789 / 16 GB Memory / 320 GB Disk / SGP1 - CentOS 7.5 x64
ON
ipv4: 178.128.101.162
ipv6: Enable now
Private IP: Enable now
Floating IP: Enable now
Console:
Graphs
Access
Power
Volumes
Resize
Networking
Backups
Snapshots
Kernel
History
Destroy
Tags
Recovery
NEW! Update Droplet to Monitoring
Learn How to Update
Select Period
6 hours
CPU Usage
There was a problem loading data for this metric. Please try refreshing the page.

实验步骤二：登录云主机

通过注册账号收取邮件，查询购买的云主机的 IP、用户名、密码邮件

Your new Droplet is all set to go! You can access it using the following credentials:

Droplet Name: centos-s-6vcpu-16gb-sgp1-01
IP Address: 178.128.101.162
Username: root
Password: b5479bc63ebfbe80ed852ffe47

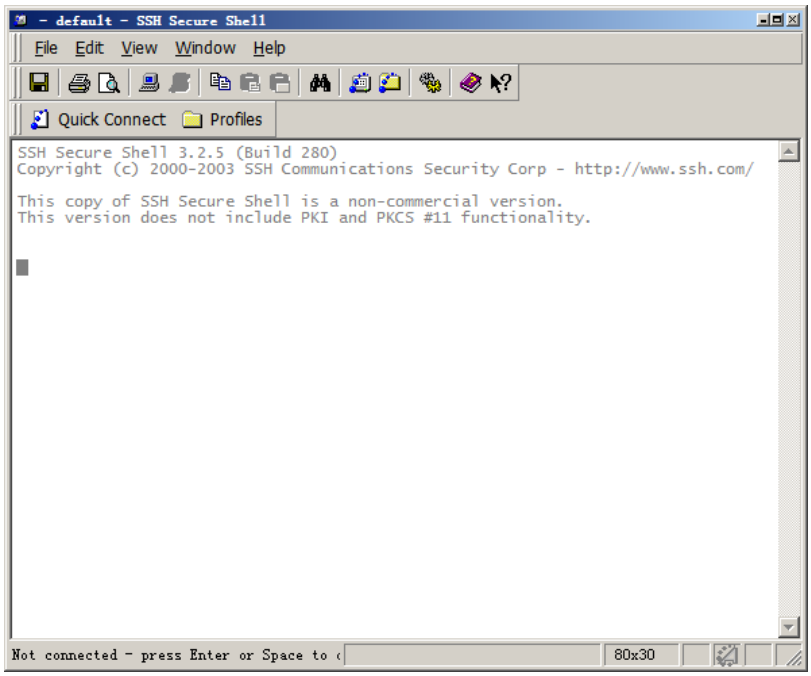
For security reasons, you will be required to change this Droplet's root password when you login. You should choose a strong password that will be easy for you to remember, but hard for a computer to guess. You might try creating an alpha-numerical phrase from a memorable sentence (e.g. "I won my first spelling bee at age 7," might become "Iwm#1sbaa7"). Random strings of common words, such as "Mousetrap Sandwich Hospital Anecdote," tend to work well, too.

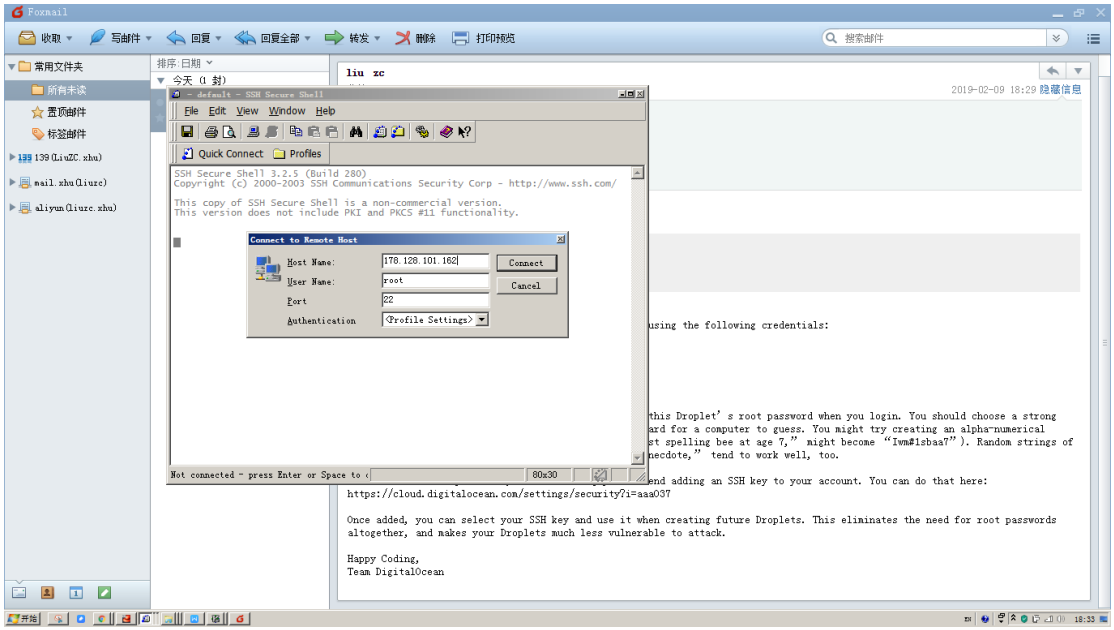
As an added security measure, we also strongly recommend adding an SSH key to your account. You can do that here:
https://cloud.digitalocean.com/settings/security?i=aaa037

Once added, you can select your SSH key and use it when creating future Droplets. This eliminates the need for root passwords altogether, and makes your Droplets much less vulnerable to attack.

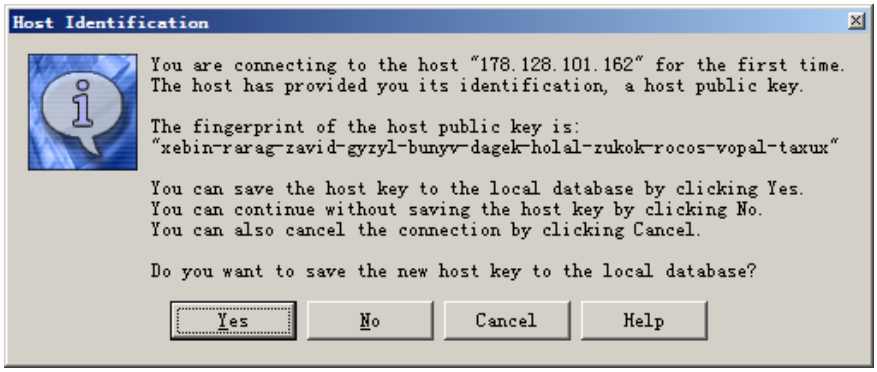
Happy Coding,
Team DigitalOcean

使用 SSHCLIENT 远程操作 Linux 系统



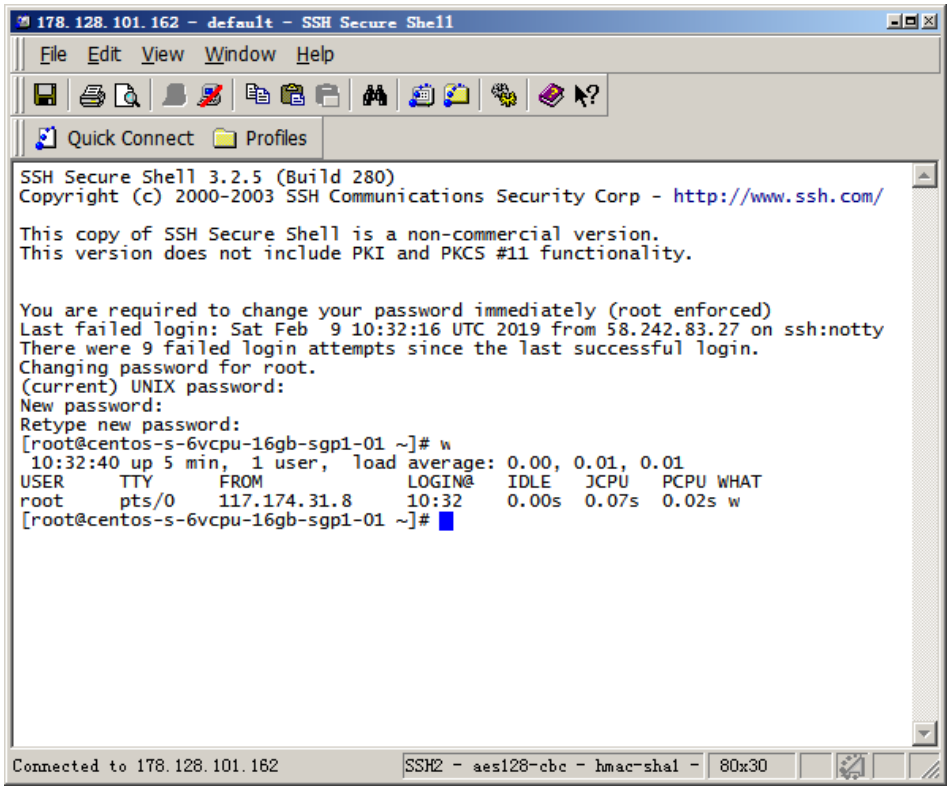

Foxmail
收取
写邮件
回复
回复全部
转发
删除
打印预览
搜索邮件
常用文件夹
所有未读
置顶邮件
标签邮件
排序: 日期
今天 (1 封)
liu zc
2019-02-09 18:29
隐藏信息
default - SSH Secure Shell
File Edit View Window Help
Quick Connect
Profiles
SSH Secure Shell 3.2.5 (Build 280)
Copyright (c) 2000-2003 SSH Communications Security Corp - http://www.ssh.com/
This copy of SSH Secure Shell is a non-commercial version.
This version does not include PKI and PKCS #11 functionality.
Connect to Remote Host
Host Name:
178.128.101.162
User Name:
root
Port
22
Authentication
<Profile Settings>
Connect
Cancel
Not connected - press Enter or Space to
80x30
using the following credentials:
this Droplet' s root password when you login. You should choose a strong
ard for a computer to guess. You might try creating an alpha-numerical
st spelling bee at age 7," might become "Iwm#lsbas7"). Random strings of
necdote," tend to work well, too.
end adding an SSH key to your account. You can do that here:
https://cloud.digitalocean.com/settings/security?i=aaa037
Once added, you can select your SSH key and use it when creating future Droplets. This eliminates the need for root passwords
altogether, and makes your Droplets much less vulnerable to attack.
Happy Coding,
Team DigitalOcean

选择登录协议


Host Identification
You are connecting to the host "178.128.101.162" for the first time.
The host has provided you its identification, a host public key.
The fingerprint of the host public key is:
"xebin-rarag-zavid-gyzyl-bunyv-dagek-holal-zukok-rocos-vopal-taxux"
You can save the host key to the local database by clicking Yes.
You can continue without saving the host key by clicking No.
You can also cancel the connection by clicking Cancel.
Do you want to save the new host key to the local database?
Yes
No
Cancel
Help

输入密码


Enter Password
Password:
OK
Cancel


178.128.101.162 - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles
SSH Secure Shell 3.2.5 (Build 280)
Copyright (c) 2000-2003 SSH Communications Security Corp - http://www.ssh.com/
This copy of SSH Secure Shell is a non-commercial version.
This version does not include PKI and PKCS #11 functionality.
You are required to change your password immediately (root enforced)
Last failed login: Sat Feb 9 10:32:16 UTC 2019 from 58.242.83.27 on ssh:notty
There were 9 failed login attempts since the last successful login.
Changing password for root.
(current) UNIX password:
New password:
Retype new password:
[root@centos-s-6vcpu-16gb-sgp1-01 ~]# w
10:32:40 up 5 min, 1 user, load average: 0.00, 0.01, 0.01
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root pts/0 117.174.31.8 10:32 0.00s 0.07s 0.02s w
[root@centos-s-6vcpu-16gb-sgp1-01 ~]#
Connected to 178.128.101.162
SSH2 - aes128-cbc - hmac-sha1 -
80x30

实验步骤三：安装 OpenStack

#systemctl disable NetworkManager

#systemctl stop NetworkManager

#chkconfig network on

#service network restart

#dd if=/dev/zero of=/home/swapfile bs=1M count=4096

#/usr/sbin/mkswap /home/swapfile

#/usr/sbin/swapon /home/swapfile

Linux 关闭防火墙、SELinux

[root@centos-s-6vcpu-16gb-sgp1-01 ~]# systemctl restart network

[root@centos-s-6vcpu-16gb-sgp1-01 ~]# systemctl stop firewalld

[root@centos-s-6vcpu-16gb-sgp1-01 ~]# systemctl disable firewalld

[root@centos-s-6vcpu-16gb-sgp1-01 ~]# setenforce 0

[root@centos-s-6vcpu-16gb-sgp1-01~]#sed -i 's/=enforcing/=disabled/' /etc/selinux/config

CentOS 安装 OpenStack 命令

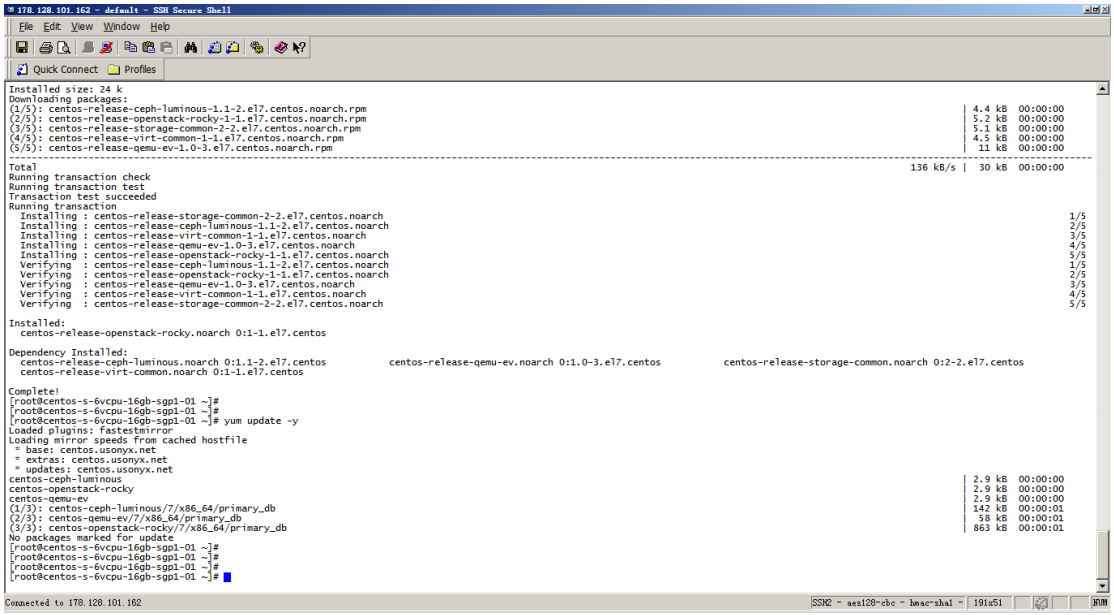
yum update -y （更新系统）

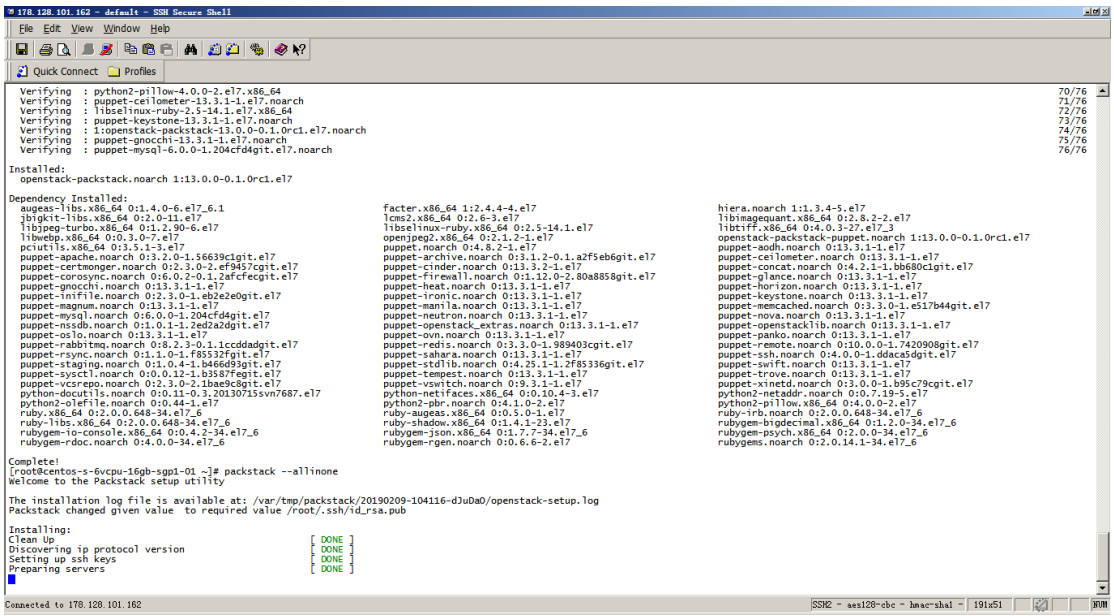
yum install -y centos-release-openstack-rocky （安装 rocky 源）

yum update -y （更新源）

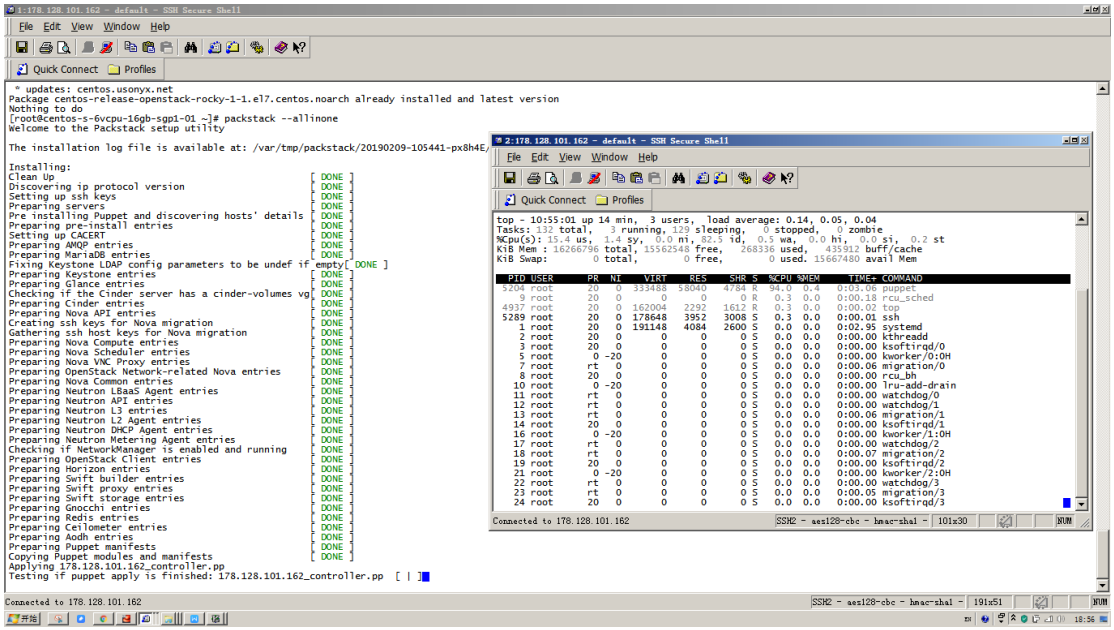
yum install -y openstack-packstack （安装 packstack 软件）

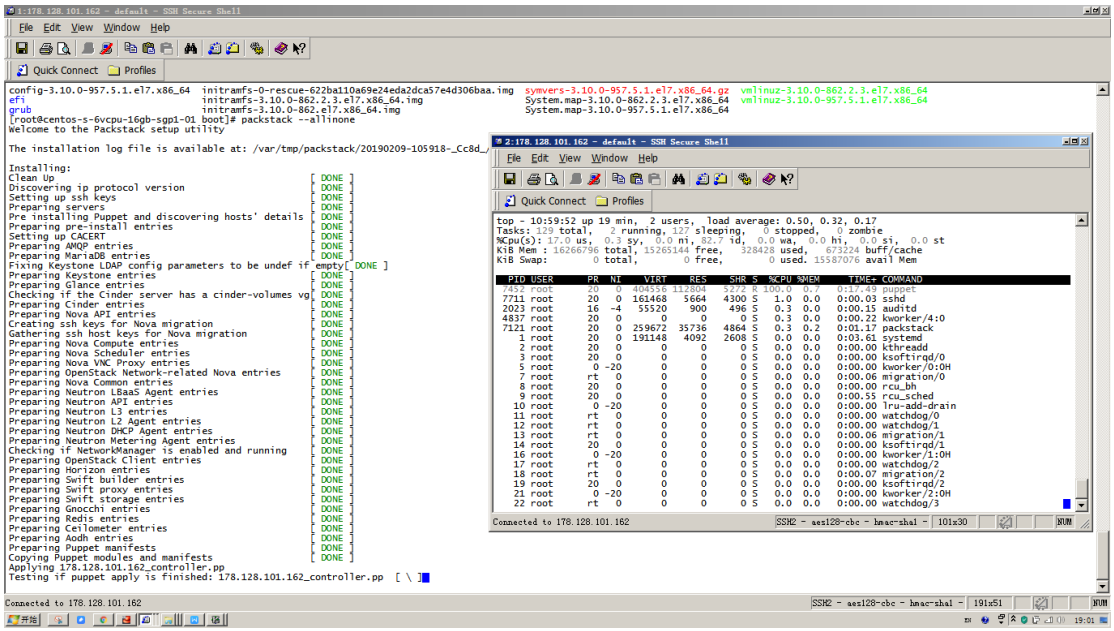
packstack --allinone （将 openstack 部署到一台主机）





等待 30~120 分钟可完成安装（根据网速而定）。





安装过程中可能因为断网等原因报错，需要重新运行命令 packstack --allinone。

实验步骤四：使用 OpenStack 云平台

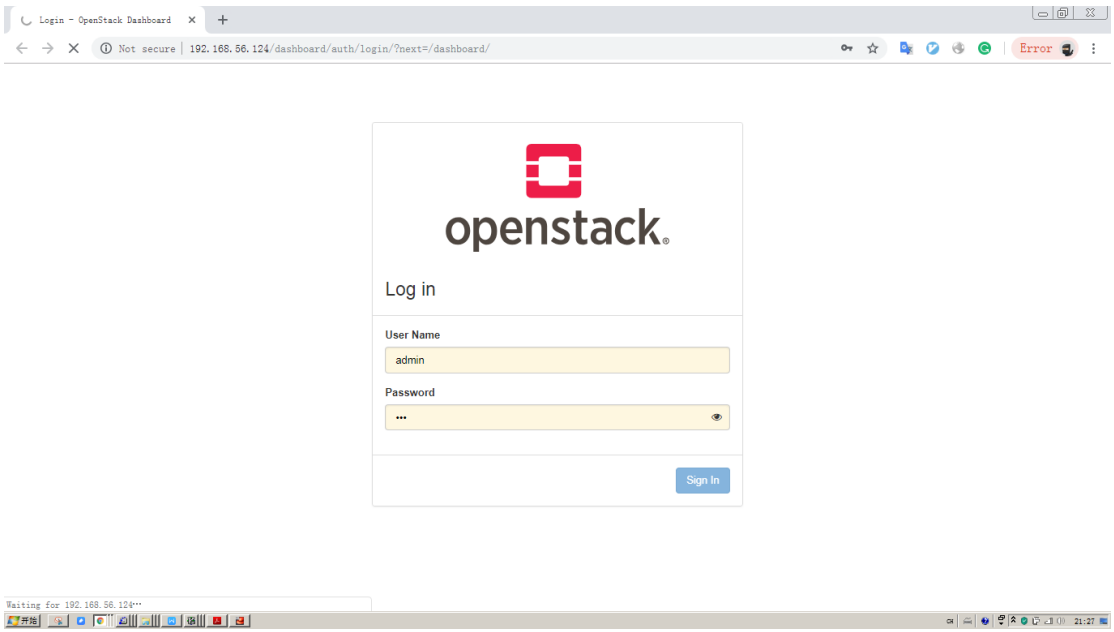
安装完毕，可使用云操作系统 OpenStack。

http://159.89.194.139/dashboard

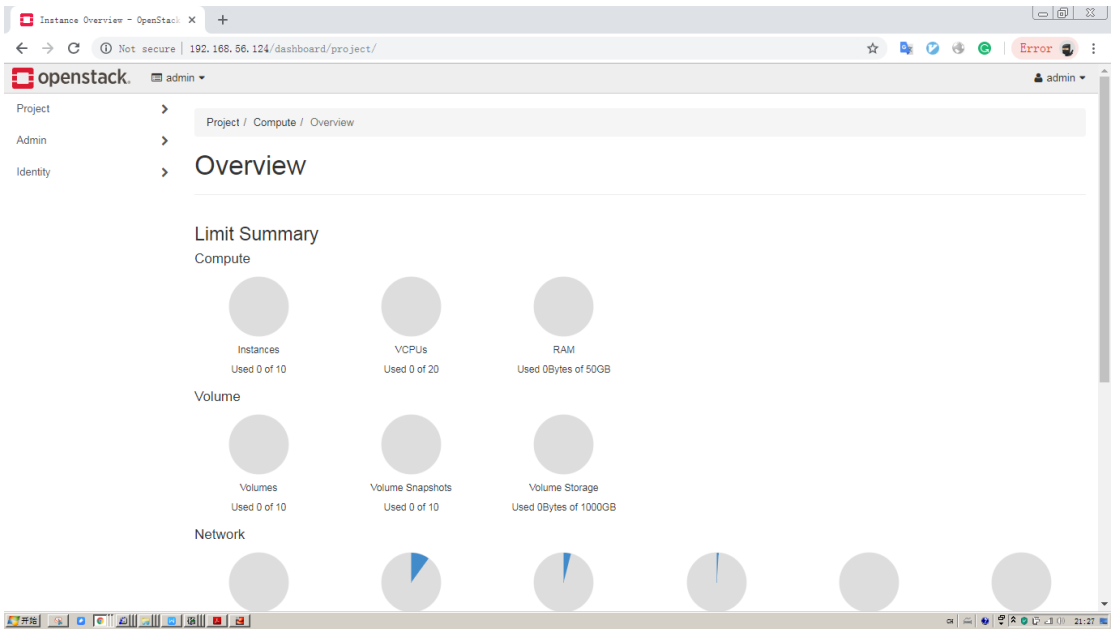
user:admin

pass:711edcf7abce48de

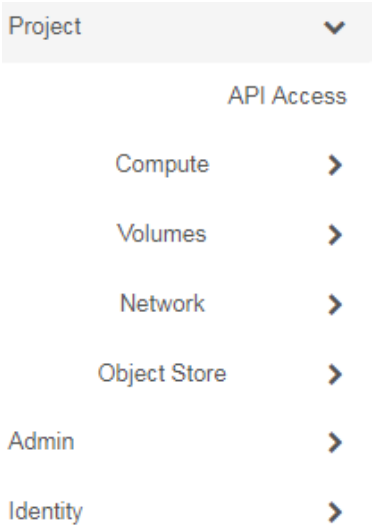
登录 OpenStack



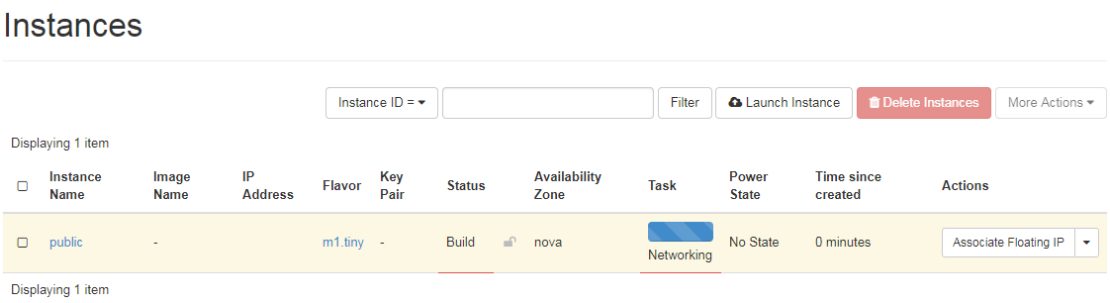
云平台资源概况



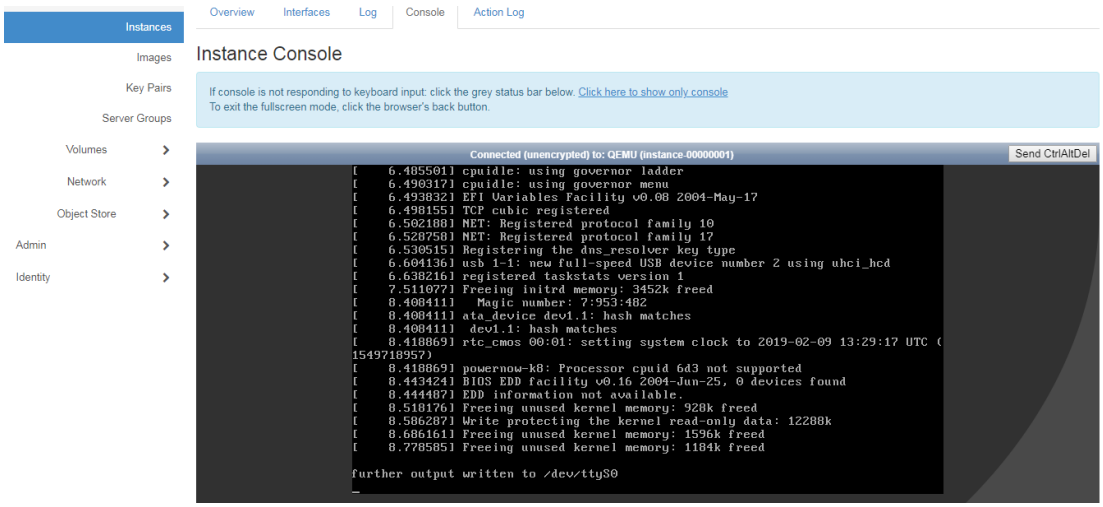
云平台租户（Project）菜单



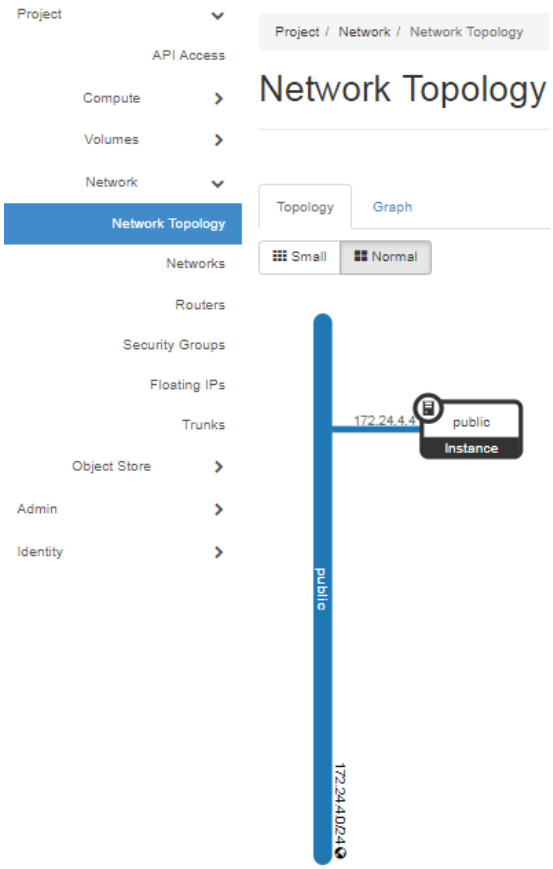
通过云平台构建虚拟机(Instance)实例



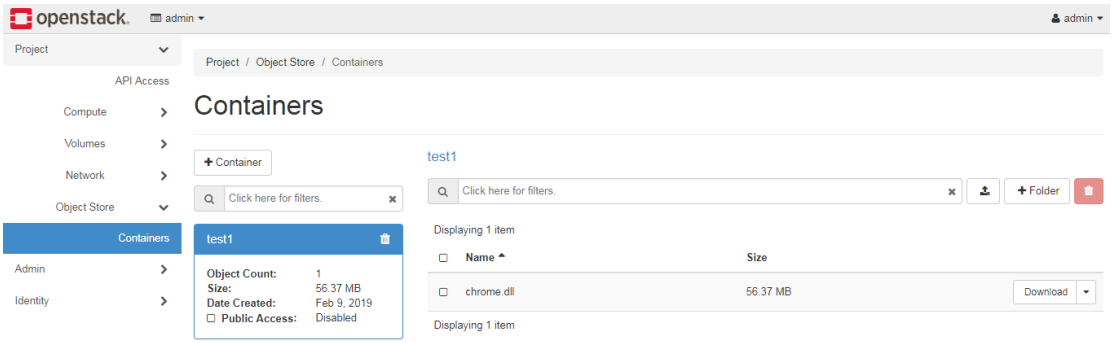
启动虚拟机实例并使用 VNC 远程登录



云平台网络拓扑



云平台存储容器构建


openstack.
admin
admin
Project
API Access
Compute
Volumes
Network
Object Store
Containers
Admin
Identity
Project / Object Store / Containers
Containers
+ Container
Click here for filters.
test1
Object Count: 1
Size: 56.37 MB
Date Created: Feb 9, 2019
Public Access: Disabled
test1
Click here for filters.
+ Folder
Displaying 1 item
Name
Size
chrome.dll
56.37 MB
Download
Displaying 1 item