

GCE Add SSH KEY

<https://cloud.google.com/compute/docs/instances/adding-removing-ssh-keys>

gce: ssh-key-test

SSH位置: /Users/junsong/.ssh

生成pubkey: ssh-key-gce.pub

1 mac 生成ssh key pair

```
ssh-keygen -t rsa -f ~/.ssh/ssh-key-gce -C junsong
```

```
ssh-keygen -t rsa -f ~/.ssh/ssh-key-gce-root -C root
```

查看生成的密钥对

```
cd /Users/junsong/.ssh
```

```
+-----[SHA256]-----+
[junsong-macbookpro:~/.ssh junsong$ ls
attcert          google_compute_engine.pub  known_hosts      ssh-key-gce.pub
corp_cert        google_compute_known_hosts ssh-key-gce
gNubbyKeyDaemon.gnubby.counter id_rsa                  ssh-key-gce-root
google_compute_engine id_rsa.pub              ssh-key-gce-root.pub
[junsong-macbookpro:~/.ssh junsong$ cat ssh-key-gce-root.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDIDVOY1pkhrXch9Vm3GkWhqdD0esFJATBhZTEcNnVZ0qw20rRMS5m0go5E5nrjGyBYD4aNps7ZL3
ArgJbrGdGzDoh1irV3fnf6Sh9xTsgWGMo2XGMkuD0gYmHhTE6cS+y+Ng17fYs6CMP7mKAKM5o9I6QRRxm8rR3mz0I3PoRNRcVoABGH3cV8W2t0Ht
4R7wxKfHvSWjvpY02FnQ0tbNa8n1jt48rxfnbAdrSHX9z/dEH5ernqZhcl1ZZ7uTa22jiNTlkv+QH+jdJmh2U06Ho/ys/V root
[junsong-macbookpro:~/.ssh junsong$
```

生成公钥如下, 格式为: ssh-rsa [KEY_VALUE] [USERNAME]

junsong key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQCA6wmbZ/FJzaTEcQfdCku/iLQT26roxUMa775ofTNepK
pgDl50k3fkm1tWmMcMmeXRiZjAJX9ygMy+6/zU/pjQhpSpZb08frcPljIj6TfmIZVe4mnNMWNRHi
0v8GDw41nt1ZRKo78oRMC9eoxNMx9a06TE/gERWwPHfVzgC24RvOr0iGUMJw8M1Glb0bsNPFxEz
Xh+MvpL5X58TEnrZf/bwhePIvMq1nHiJjhu1GSqm5p00cdZ/qmrzBXCEsjs/U1cM0XJyGlyzDu
Zi/61190KRhr6ezgMvntn9C+Hhk2xI6o+YBm0zVqw3FUDTVp8w30LHmH2873BGLK4kR0ePh3
junsong
```

Root key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDIDVOY1pkhrXch9Vm3GkWhqdD0esFJATBhZTEcNnVZ0qw2
```

```
OrRMS5mOgo5E5nrjGyBYD4aNps7Z13LHn0v5/ha2FzTOGRytsDcsjS4NyfoArgJbrGdGzDoh1ir
V3fnf6Sh9xTsgWGMo2XGMkuD0GyMhHTE6cS+y+Ng17fYs6CMP7mKakM5o9I6QRRxm8rR3mzOI3
PoRNRcVoABgH3cV8W2t0HtfdSZ+ta8WxxmhRqISkkQdTSifx8Nx4R7wxKfHv5WjvpYO2FnQ0tbN
aBn1jt48rxfNebtAdrSHX9z/dEH5ernqZhc11ZZ7uTa22jiNT1kv+QH+jDJmh2U06Ho/ys/V
root
```

2 添加ssh 至GCE

2.1 检查22端口防火墙，默认打开

gce: ssh-key-test

default-anig6e5jedpd3hg2abwj3oy-1	Ingress	Source resource: "corp/external/non_guest_nat" Destination resource: "gcp/gce/gcct-demos-policy" Exposure: "gcp/gce/gcct-demos-policy"	Apply to all	IP ranges: 1.255.24.224/30, 255 more ▾	tcp:22,3389,8000,8081	Allow	1000
default-anig6e5jedpd3hg2abwj3oy-2	Ingress	Source resource: "corp/external/non_guest_nat" Destination resource: "gcp/gce/gcct-demos-policy" Exposure: "gcp/gce/gcct-demos-policy"	Apply to all	IP ranges: 104.132.215.64/27, 228 more ▾	tcp:22,3389,8000,8081	Allow	1000
default-diruktxqpdquqjop6vkdjnb	Ingress	(non-flow term) gcp/folders/212894236552/folders/212894236552 tsunami_security_scanners_requests:tsunami-accept-from-scanners-udp-requests Allow the tsunami scanners to send UDP packets to all GCP projects	Apply to all	IP ranges: 34.82.160.0/24, 4 more ▾	udp	Allow	1000
default-hdqidyey5ddfydsq36if33n4	Ingress	(non-flow term) gcp/folders/212894236552/folders/212894236552 tsunami_security_scanners_requests:tsunami-accept-from-scanners-tcp-requests Allow the tsunami scanners to send TCP packets to all GCP projects	Apply to all	IP ranges: 34.82.160.0/24, 4 more ▾	tcp	Allow	1000
default-l5obi46qvk6ag6fxon3pbust	Ingress	Source resource: "prod/external" Destination resource: "gcp/gce/gcct-demos-policy" Exposure: "gcp/gce/gcct-demos-policy"	Apply to all	IP ranges: 108.170.224.0/19, 55 more ▾	tcp:22,3389,8000,8081	Allow	1000

2.2 添加junsong key

TPUs

Committed use discounts

Metadata

Health checks

Zones

Network endpoint groups

Operations

Security scans

OS patch management

Settings

+ Add item

SSH Keys

☐ Block project-wide SSH keys

When checked, project-wide SSH keys cannot access this instance [Learn more](#)

You have 0 SSH keys

junsong

SpZb08frcP1jIj6TfmIZVe4mnNMNRHi0v8GDw41nt1ZRKo78oRMC9eoxNMx9a06TE/gERWwPHfVzgC24Rv0r0iGUMJw8M1G1b0bsNPFxEzXh+MvpL5X58TEenkrZf/bwhePIvMq1nHiJJhu1GSqm5p00cdZ/qmrzBXCEsjs/U1cMOXJyGlyzDuZi/61190KRhr6ezgMvntn9C+Hhk2xI6o+YBm0zVqw3FUDTVp8w30LHmH2873BGLK4kR0ePh3_junsong

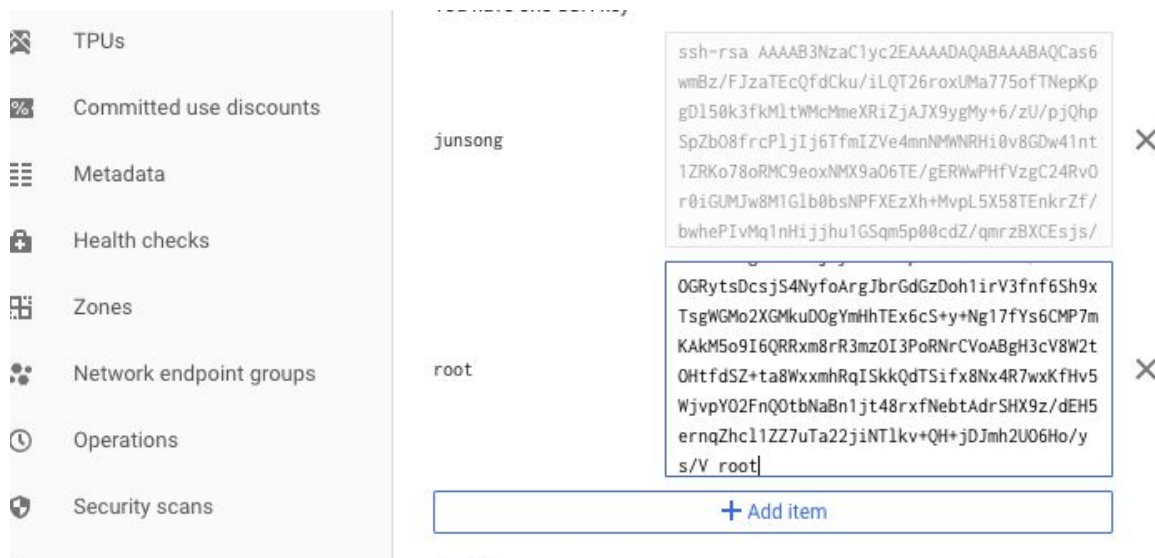
+ Add item

[Hide](#)

Service account

You must stop the VM instance to edit its service account

2.2 root key



3 连接测试

3.1 普通用户junsong登陆

```
ssh -i ssh-key-gce junsong@35.223.69.207

junsong-macbookpro:~$ ssh -i ssh-key-gce junsong@35.223.69.207
The authenticity of host '35.223.69.207 (35.223.69.207)' can't be established.
ECDSA key fingerprint is SHA256:gVGGL/TWOafHxuGFoW6H18yj48DYn2CMB45BAcI1AAM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '35.223.69.207' (ECDSA) to the list of known hosts.
Linux ssh-key-test 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u2 (2019-11-11) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
junsong@ssh-key-test:~$
```

查看gce 证书配置：/home/junsong/.ssh

```
junsong@ssh-key-test: ~/.ssh$ ls
authorized_keys
junsong@ssh-key-test: ~/.ssh$ cat authorized_keys
# Added by Google
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAc6wmbZ/FJzaTECQfdCku/iLQT26roxUMa775ofTNepKpgDL50k3fkMltWMcMmeXRiZjAJX9ygMy+6/zU/pjQhpSpZb08frcPljIj6T
fmIZVe4mnMWNrHi0v8GDw41nt1ZRKo78oRMC9eoxNMx9a06TE/gERWwPHfVzgC24Rv0r0iGUMJw8M1G1b0bsNPFEXzXh+MvpL5X58TEnrZf/bwhePivMq1nHiJJhu1GSqm5p00cdZ/qm
rzBXCEsjs/U1cMOXJyGlyzDuZi/61190KRhr6ezgMvntn9C+HhkZxI6o+YBm0zVqw3FUDTVp8w30LHmH2873BGLK4kR0ePh3 junsong
# Added by Google
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDUwGv1qjSir00qtMAknaSe/QJpcrjr0lbaSMmCRyLdzoXUxPBpem57TmkAXh8TR7RcbKQTkNXglAob1q3qDLJ/J8r8o2AhfXhBx6emuW
w2e13yDxQbk8ZwpzS1i0tNmG4tFTsi4IYcXfCdeSlwX2H0PsLzN+cgNsoJ1zLEKZozArbN8tx6YgbuBp9Eadod6wTaQD+DceTfb7iPuFkg6XjnImLzNKdxm3WSKWf/jL0L+4wHyH/14U4f
hGwbXa5kA6nIWruAI6FeIrKbKnPAVS9ttMA4m3Psz+h5GQhaCi+DaS+Kt8H+zGRqfnAge8MJ1/2zjE56eLroChSbwZsD2kJX junsong@cs-6000-devshell-vm-0dcd6afc-38aa-43c
c-a414-3492b6b3d2e7
# Added by Google
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAC3coAeME2w651dog5tbAAFHJkskT0ENPri0xXcn+a5fNSxtbc1NA01XsdbFcVqhhZdWB86DahuRSQ5L4ZayvYgIW/y4y80v2wyZLdGvw
B/WQ6rsrCbgftZieD+NZUe0i6Pa9PB0JTFKn2PnwfbtoQ9iBR2Bp1X21SMQL01k9CoC/kpTbPt+T+HJRk4bPGanSpxbdPaNt/PG7G5ke849H0cjIDSzqtuLP1sD+8sietNACHafo3ne4Ht
X91BkElvEqE2nyNgOrWVp7ZYZGEFjaatV8rSR+MX3KcT+1EeuxQcNH8EF3Wx59We6Le0NHfVJExz1F0PbzLGedf5WHqyGSr junsong@junsong-macbookpro.road.corp.google.c
om
junsong@ssh-key-test: ~/.ssh$
```

测试root 权限

```
junsong@ssh-key-test: ~$ sudo su
root@ssh-key-test: /home/junsong# ls
root@ssh-key-test: /home/junsong#
```

3.2 root用户登陆

打开root登陆权限后PermitRootLogin ssh 连接

```
ssh -i ssh-key-gce-root root@35.223.69.207
```

```
junsong-macbookpro:~$ ssh -i ssh-key-gce-root root@35.223.69.207
root@35.223.69.207: Permission denied (publickey).
junsong-macbookpro:~$ ssh -i ssh-key-gce-root root@35.223.69.207
Linux ssh-key-test 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u2 (2019-11-11) x86_64

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permitted by applicable law.
root@ssh-key-test:~#
```

注意：Root用户不允许登陆，默认ssh 不允许root用户直接登陆。

```
junsong-macbookpro:~$ ssh -i ssh-key-gce-root root@35.223.69.207
root@35.223.69.207: Permission denied (publickey).
junsong-macbookpro:~$
```

普通用户登陆，修改配置如下：

PermitRootLogin no #允许root登录，修改为yes

sudo vim /etc/ssh/sshd_config

```
# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
```

重启服务

```
sudo /etc/init.d/ssh restart
```

重新登陆