

How to create a VM with associate key

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Outline

- Import Key Pair
- Create VM
- Associate Float IP
- Connect to your VM

Import Key Pair

Step 1: Generate Key Pair

Command

ssh-keygen -t rsa -f [cloud.key](#)

```
(venv)ubuntu@jing-vm2:~$ ssh-keygen -t rsa -f cloud.key
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in cloud.key.
Your public key has been saved in cloud.key.pub.
The key fingerprint is:
1e:20:f0:ec:09:69:34:c1:b0:81:29:a9:35:98:91:40 ubuntu@jing-vm2
The key's randomart image is:
+--[ RSA 2048 ]-----+
|OE=.                  |
|O++*                 |
|+.+.+ .              |
|.. o o .              |
|    o S               |
|    . .               |
|    .                 |
|                      |
+-----+
(venv)ubuntu@jing-vm2:~$
(venv)ubuntu@jing-vm2:~$ ls
cloud.key  cloud.key.pub  openstackrc  user_data.file  venv
(venv)ubuntu@jing-vm2:~$ cat cloud.key.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDXrWtdK2kG7MK2tsu7kDD030r0
WYeN9XanU5FXgBrc/HakCyogw63+cmDAHbh5bXGNUxn7cTe+6eGG9y0cPlrdjglEp
05cUsmqiUiJWAKJLG0AderpwITZ801HN03IBmYsS+A38q29z1hOHUdkhcNLp8KPKr
```

Step 2: Paste the Public Key

Horizon: [Compute] -> [Access & Security]

Import Key Pair

Key Pair Name *

jing-key

Public Key *

```
S8NFFpudd65UTIRfVnmm+6qufSwGn+jnYqJ7Me
7YnjgKV/tBcMxVKewl2kd3HhkPXJmnguxtvjw0G
8e0c4pEYQyoQP1EVV/u+UuKNwes2ICi8emCH+a
eNXgl11F1nJTfHyce6jpyASPwEh026GGPLxN95a
h1U5a3mMtVOH3DVscg1vtSVbXjTkycN1y4wfmQ
skqEjMdQfh+9L4P70emcM3XRJTPrs6mUMNwZT
w0d8gLAaxpr9pfOQiPmcNOWloow4E+cSglKmlW
Vm9f9YRGJaCJZDgRuXgXcH7He4QDdn1GcgJ5k
UG/FWnx9K9wLqXjeA9JAUPMqryO66LRnd
jing@jing-Lenovo-B50-70
```

Description:

Key Pairs are how you login to your instance after it is launched.

Choose a key pair name you will recognise and paste your SSH public key into the space provided.

SSH key pairs can be generated with the ssh-keygen command:

```
ssh-keygen -t rsa -f cloud.key
```

This generates a pair of keys: a key you keep private (cloud.key) and a public key (cloud.key.pub). Paste the contents of the public key file here.

After launching an instance, you login using the private key (the username might be different depending on the image you launched):

```
ssh -i cloud.key <username>@<instance_ip>
```

Cancel

Import Key Pair

Access & Security

Security Groups

Key Pairs

Floating IPs

API Access

Filter

☐	Key Pair Name	Fingerprint
☐	howard-key	b6:5e:60:5c:9c:34:87:0c:22:fc:67:37:e7:b0:b4:2a
☐	cloud	4f:d9:20:2d:4c:95:c2:41:06:90:c3:9c:19:d2:4c:a7
☐	evan-key	27:9c:ec:bb:06:70:d4:1e:ee:9f:1c:14:0b:8f:85:5d
☐	jing-key	2f:a3:20:ba:6f:6c:8c:97:a4:e0:48:70:86:61:25:bf

Displaying 4 items

Create VM

Horizon: [Compute] -> [Instance]

(a) Basic Setting

Details *
Access & Security
Networking *
Post-Creation
Advanced Options

Availability Zone
Any Availability Zone

Instance Name *
jing-vm1

Flavor * ?
m1.small

Instance Count * ?
1

Instance Boot Source * ?
Boot from image

Image Name *
ubuntu_cloud (246.8 MB)

Specify the details for launching an instance.
The chart below shows the resources used by this p
in relation to the project's quotas.

Flavor Details

Name	m1.small
VCPUs	1
Root Disk	20 GB
Ephemeral Disk	0 GB
Total Disk	20 GB
RAM	2,048 MB

Project Limits
Number of Instances
0 of in

(b) Key Pair

Details *
Access & Security
Networking *
Post-Creation

Key Pair ?
jing-key
+
Control acces
groups, and o

Security Groups ?
☐ default
☐ all

(c) Networking

Details * Access & Security Networking *

Selected networks

NIC:1 ↕

internal_net (1c48a1d5-62e9-459f-89ab-80f4c0b0480)

-

Available networks

↕

floating_ext (0a3d3905-dab7-4047-82a7-d5e5e438c0c9)

+

Associate Floating IP

Step 1: Associate

Horizon: [Compute] -> [Instance]: Actions:: **Associate Floating IP**

Actions

Create Snapshot ▼

Associate Floating IP

Attach Interface

Detach Interface

Edit Instance

Edit Security Groups

Step 2: Create IP

Manage Floating IP Associations

IP Address *

IP Address *

No floating IP addresses allocated

+

Select the IP address you wish to associate v selected instance or port.

Port to be associated *

jing-vm1: 10.30.0.78

Cancel

Allocate Floating IP

Pool *

floating_ext

Description:

Allocate a floating IP from a given floating IP pool.

Project Quotas

Floating IP (8) 42 Available

Cancel Allocate IP

Connect to your VM

Command

ssh -i <Your Private Key> VM

Ex:

```
jing@jing-Lenovo-B50-70:~$ ssh -i cloud.key ubuntu@192.168.1.174
The authenticity of host '192.168.1.174 (192.168.1.174)' can't be established.
ECDSA key fingerprint is 82:3c:21:d5:ed:55:0c:94:5e:61:08:e9:56:49:a7:94.
Are you sure you want to continue connecting (yes/no)?
```