

How to Create SSH-key and Access VMs using SSH

1. Register SSH-key of your host machine

The image is a collage of screenshots illustrating the steps to create an SSH key and register it in the OpenStack dashboard.

Top Left Screenshot: The OpenStack dashboard 'Keypairs' page. The 'Keypairs' tab is selected. The 'Keypair Name' field is empty. The 'Public Key' field contains the public key content. The 'SSH Key' button is highlighted with a red box.

Top Right Screenshot: The OpenStack dashboard 'Keypairs' page. The 'Keypair Name' field is filled with 'userkey'. The 'Public Key' field contains the public key content. The 'SSH Key' button is highlighted with a red box.

Bottom Left Screenshot: A terminal window on the host machine. The command `ssh-keygen -t rsa -f cloud.key` is entered. The output shows the key pair generation process, including the passphrase prompt and the key fingerprint.

Bottom Right Screenshot: A terminal window on the host machine. The command `ssh -i cloud.key <username>@<instance_ip>` is entered. The output shows the SSH connection attempt.

Center Screenshot: A terminal window showing the public key content being copied. The text 'Copy it' is overlaid on the screenshot.

Bottom Center Screenshot: A terminal window showing the public key content being copied. The text 'Your Host Machine' is overlaid on the screenshot.

Bottom Right Screenshot: The OpenStack dashboard 'Keypairs' page. The 'Keypair Name' field is filled with 'userkey'. The 'Public Key' field contains the public key content. The 'SSH Key' button is highlighted with a red box.

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2. Create Instance with created key pair

The following steps are shown in the screenshots:

- Step 1: Create Instance Dialog**
 - Project: Compute
 - Instance Name: nova
 - Flavor: m1.small
 - Image: ubuntu-14.04.3-x86-cloud (246.4 MB)
 - Key Pair: userkey
 - Security Group: default
- Step 2: Create Instance Button**
 - The 'Create Instance' button is highlighted in the 'Create Instance' dialog.
- Step 3: Instances Table**
 - The 'Instances' table shows the newly created instance 'test' in the 'Running' state.

인스턴스 이름	이미지 이름	IP 주소	크기	키 패어	상태	가용 영역	작업	전원 상태	생성된 이후 시간	Actions
test	ubuntu-14.04.3-x86-cloud	10.0.0.55	m1.small	userkey	Active	nova	None	Running	0분	스냅샷 생성

Instance is created!

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3. Assign floating IP to instance

인스턴스

인스턴스 이름	이미지 이름	IP 주소	크기	키 패어	상태	가용 영역	작업	전원 상태	생성된 이후 시간	Actions
test	ubuntu-14.04.3-x86-cloud	10.0.0.55	m1.small	userkey	Active	nova	None	Running	0분	스냅샷 생성

유동 IP 연결

유동 IP 연결 관리

IP 주소 *

IP 주소 *

IP 주소 선택

210.114.90.41

210.114.90.54

210.114.90.55

test: 10.0.0.55

선택한 인스턴트나 포트에 연결하고자 하는 IP 주소를 선택합니다.

인스턴스

인스턴스 이름	이미지 이름	IP 주소	크기	키 패어	상태	가용 영역	작업	전원 상태	생성된 이후 시간	Actions
test	ubuntu-14.04.3-x86-cloud	10.0.0.55 유동 IP: 210.114.90.41	m1.small	userkey	Active	nova	None	Running	6분	스냅샷 생성

취소

연결

Floating IP is assigned!

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4. Access the instance using SSH and configure root Password

```
root@control-box: /home/tein/jshan
root@control-box:/home/tein/jshan# ssh -i cloud.key ubuntu@210.114.90.41
```

Your Host Machine

```
System load: 0.04      Processes:   69
Usage of /:  3.8% of 19.65GB   Users logged in:  0
Memory usage: 3%          IP address for eth0: 10.0.0
55
Swap usage:  0%

Graph this data and manage this system at:
https://landscape.canonical.com/

Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.

Last login: Sun Aug 23 10:36:57 2015 from 210.114.90.12
ubuntu@test:~$ sudo passwd root
sudo: unable to resolve host test
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
ubuntu@test:~$
```

You can access your VMs on the dashboard after changing the root password!

인스턴스 콘솔

콘솔에서 키보드 입력을 받지 못한다면: 회색 상태 표시 줄을 클릭하세요. [콘솔만 보려면 여기를 클릭하세요.](#)
전체화면 모드에서 나가려면, 브라우저의 Back 버튼을 클릭하세요.

Connected (unencrypted) to: QEMU (instance-0000005d) Send CtrlAltDel

```
System load: 0.02      Processes:   69
Usage of /:  3.8% of 19.65GB   Users logged in:  0
Memory usage: 3%          IP address for eth0: 10.0.0.55
Swap usage:  0%

Graph this data and manage this system at:
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http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.

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

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

root@test:~#
```