

How to enable the host forward option for your VM

Jing, mqjing@gmail.com

User network mode with host forward

[host] 2222 -> [guest] 22

`kvm vlan-clone1.qcow2 -net nic -net user,hostfwd=tcp:127.0.0.1:2222-:22`

ex:

`kvm vlan-clone1.qcow2 -net nic -net user,hostfwd=tcp:127.0.0.1:2222-:22`

note: you cannot use localhost for 127.0.0.1

error: `kvm vlan-clone1.qcow2 -net nic -net user,hostfwd=tcp:localhost:2222-:22`

Default Network Value:

- mode: User mode networking. (guest -> host, **host cannot access to the guest**)
- host: 10.0.2.2 *# see man kvm -net user, host=addr*
- guest: 10.0.2.15 *# see man kvm -net user, hostfwd, guestaddr*
- subnet: 10.0.2.0/24

verification

[host] `ssh jing@127.0.0.1 -p 2222`

```
jing@ubuntu:~/Desktop$ ssh jing@127.0.0.1 -p 2222
The authenticity of host '[127.0.0.1]:2222 ([127.0.0.1]:2222)' can't
be
ECDSA key fingerprint is cc:66:fd:fa:84:2b:01:40:1e:53:7b:29:3c:86:4
Are you sure you want to continue connecting (yes/no)?
```

Old Version

Qemu command line

Port forward

Step 1: Start the guest with `-redir` command

`qemu-system-x86_64 -hda ubuntu-12.04.2-server-amd64.clone.qcow2 -m 400 -redir`

`tcp:8022::22`

```
jing@jing-XPS-L412Z:~/Desktop$ qemu-system-x86_64 -hda ubuntu-12.04.2-server-amd
64.clone.qcow2 -m 400 -redir tcp:8022::22
```

Step 2: ssh Test

ssh -l jing -p 8022 localhost

ex:

```
jing@jing-XPS-L412Z:~$ ssh -l jing -p 8022 localhost
The authenticity of host '[localhost]:8022 ([127.0.0.1]:8022)' can't be established.
ECDSA key fingerprint is 69:da:2e:62:4a:e6:1d:0f:c5:31:b9:41:ab:ce:a3:8f.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[localhost]:8022' (ECDSA) to the list of known hosts
jing@localhost's password:
Welcome to Ubuntu 12.04.2 LTS (GNU/Linux 3.5.0-23-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

System information as of Tue Feb 25 14:21:02 CST 2014

System load:  0.0               Processes:            72
Usage of /:   12.3% of 9.11GB   Users logged in:     0
Memory usage: 21%              IP address for eth0: 10.0.2.15
Swap usage:   0%

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

134 packages can be updated.
77 updates are security updates.

Last login: Tue Feb 25 13:17:05 2014
jing@ubuntu:~$
```

References

- Qemu method,
<http://www.linux-kvm.com/content/exploring-host-guest-communication-using-redirects>
- libvirt network interface, <http://libvirt.org/formatdomain.html#elementsNICS>
- Running QEMU with port redirection through libvirt,
<http://snippets.webaware.com.au/howto/running-qemu-with-port-redirection-through-libvirt/>