

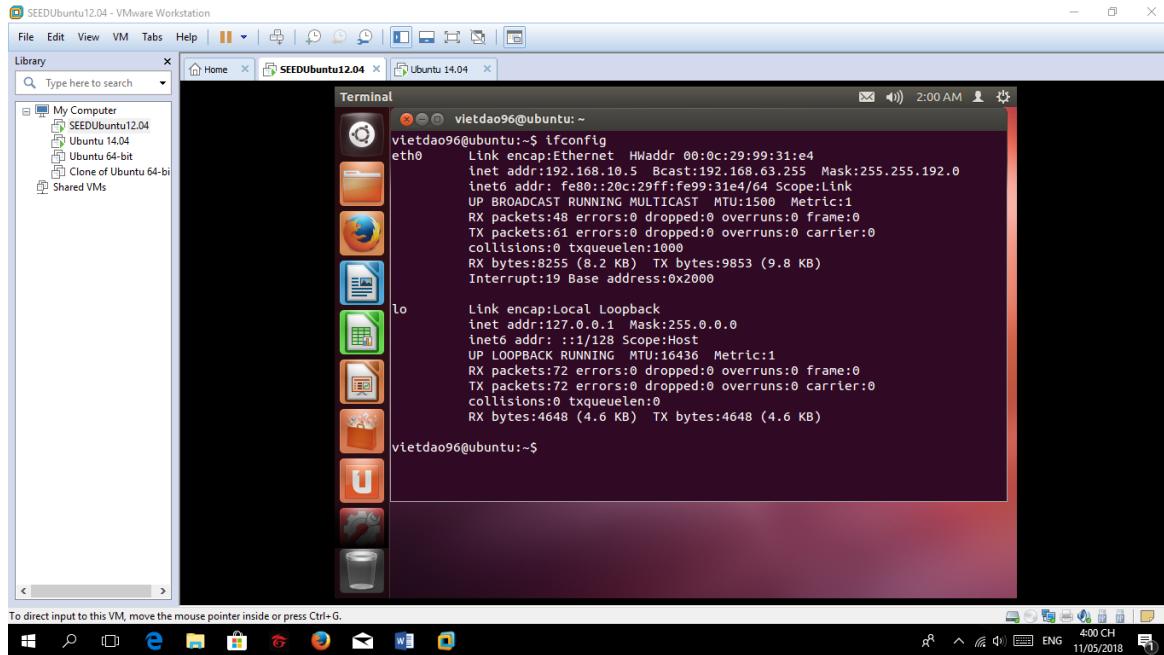
# Báo Cáo kết quả Thực Hành VPN

SV : Nguyễn Viết Đạo

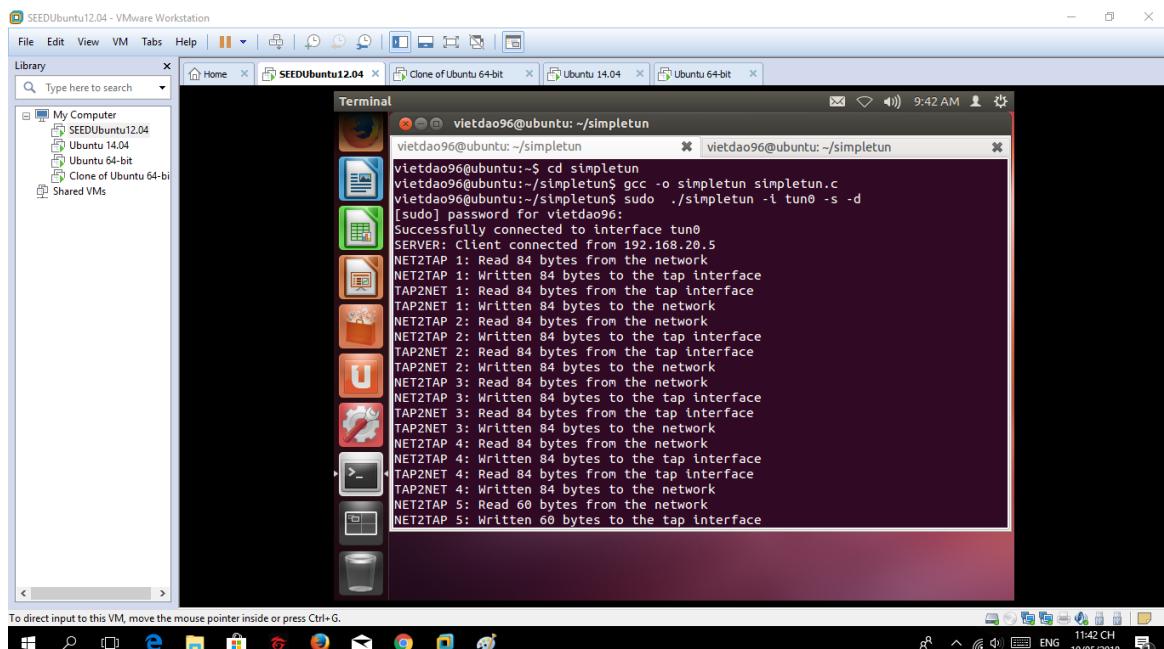
Mã SV : B14DCAT105

## Task 1 host to host

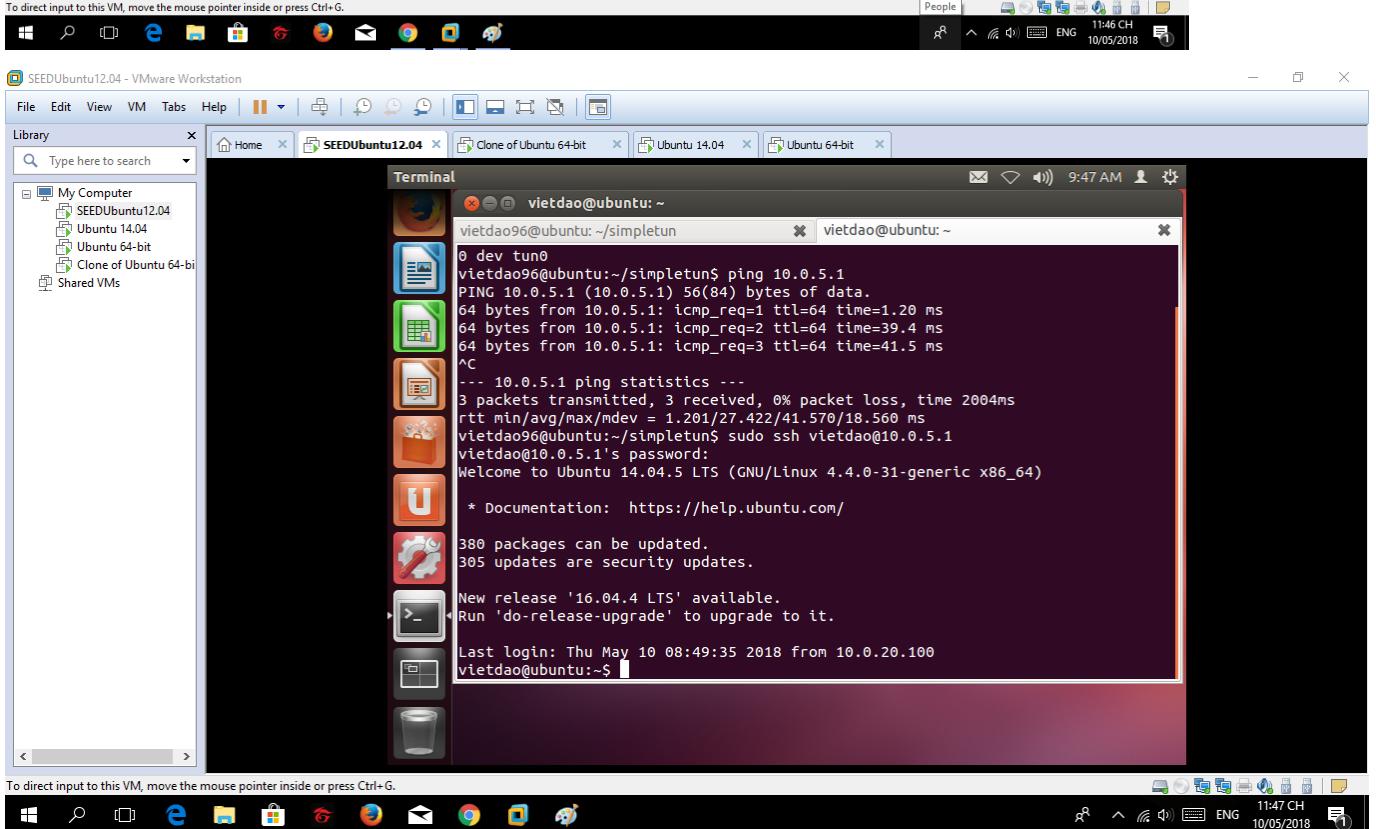
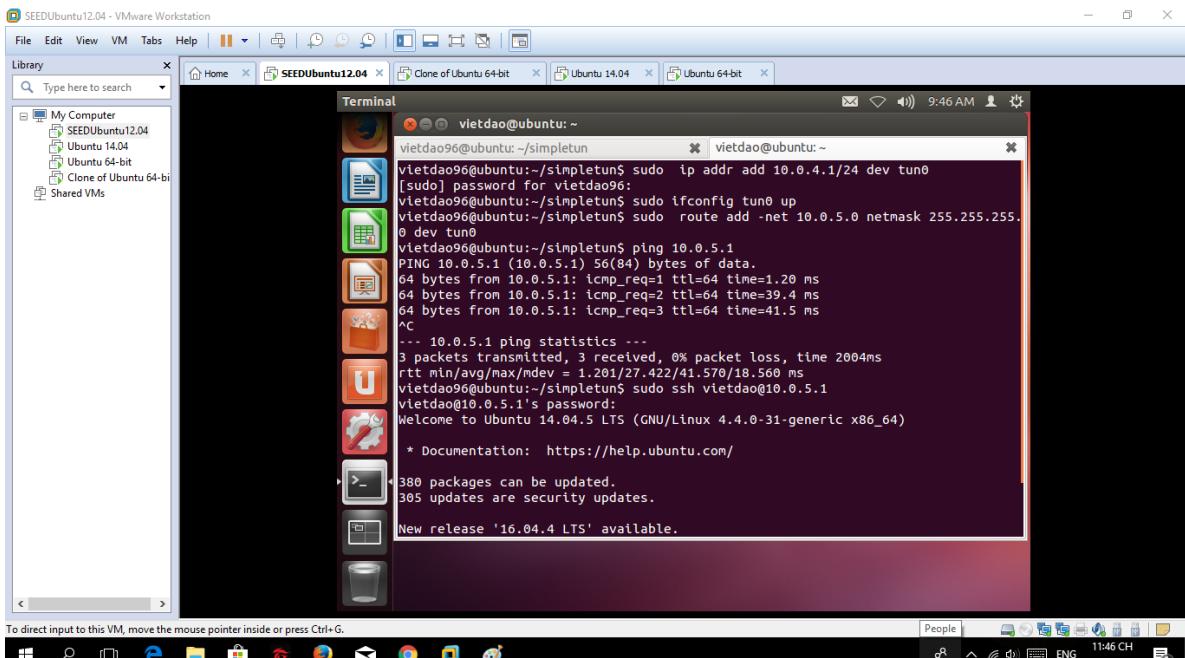
Máy SEEDubuntu12 là 1 host :



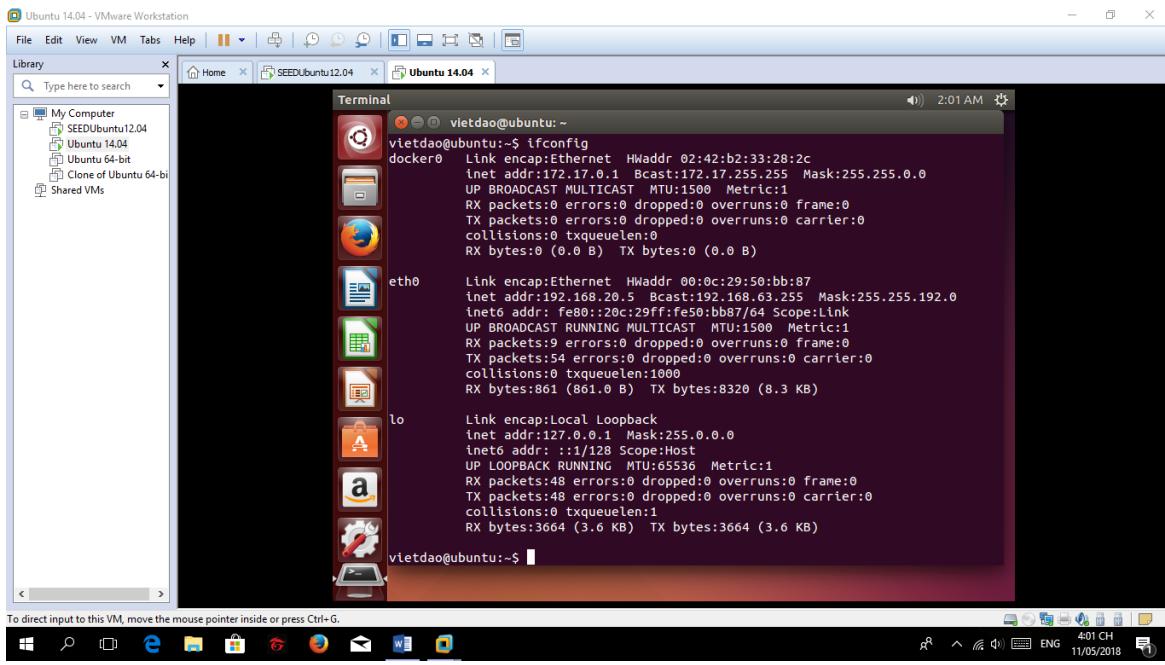
Trạng thái khi kết nối TUN/TAP nhìn từ máy SEEDubuntu 12:



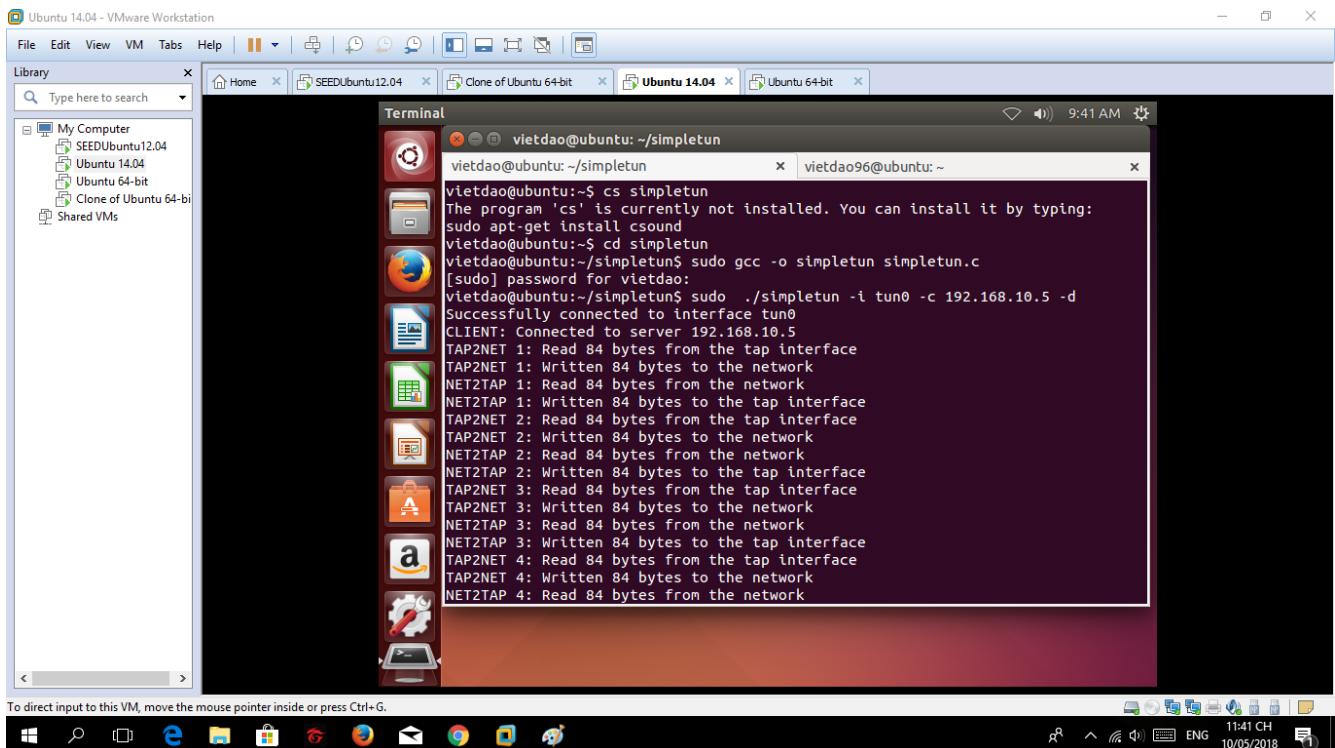
Kết quả ping và ssh từ máy SEEDubuntu12 đến máy ubuntu14 :



Máy ubuntu14 là 1 host :



Tương tự kết quả trạng thái TUN/TAP khi nhìn trên máy ubuntu14:



Kết quả ping và ssh trên máy ubuntu14 đến máy SEEDubuntu 12:

```

vietdao@ubuntu:~/simpletun
vietdao@ubuntu:~/simpletun$ sudo ip addr add 10.0.4.1/24 dev tun0
[sudo] password for vietdao:
vietdao@ubuntu:~/simpletun$ sudo ifconfig tun0 up
vietdao@ubuntu:~/simpletun$ route add -net 10.0.5.0 netmask 255.255.255.0 dev tun0
SIOCADDRT: Operation not permitted
vietdao@ubuntu:~/simpletun$ sudo route add -net 10.0.5.0 netmask 255.255.255.0 dev tun0
vietdao@ubuntu:~/simpletun$ ping 10.0.5.1
PING 10.0.5.1 (10.0.5.1) 56(84) bytes of data.
64 bytes from 10.0.5.1: icmp_seq=1 ttl=64 time=2.17 ms
64 bytes from 10.0.5.1: icmp_seq=2 ttl=64 time=46.5 ms
64 bytes from 10.0.5.1: icmp_seq=3 ttl=64 time=42.2 ms
^C
--- 10.0.5.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 2.174/30.346/46.568/19.996 ms
vietdao@ubuntu:~/simpletun$ sudo ssh vietdao96@10.0.5.1
The authenticity of host '10.0.5.1 (10.0.5.1)' can't be established.
ECDSA key fingerprint is 81:82:a9:af:bd:93:78:f9:1a:a7:ca:7f:e8:d6:c0:04.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.5.1' (ECDSA) to the list of known hosts.
vietdao96@10.0.5.1's password:
Welcome to Ubuntu 12.04.2 LTS (GNU/Linux 3.5.0-37-generic i686)

tun0      Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          inet addr:10.0.4.1  P-t-P:10.0.4.1  Mask:255.255.255.0
                      UP POINTOPOINT RUNNING NOARP MULTICAST  MTU:1500  Metric:1

```

## Task 2 host to gateway

Cáu hình máy Ubuntu 14 là gateway:

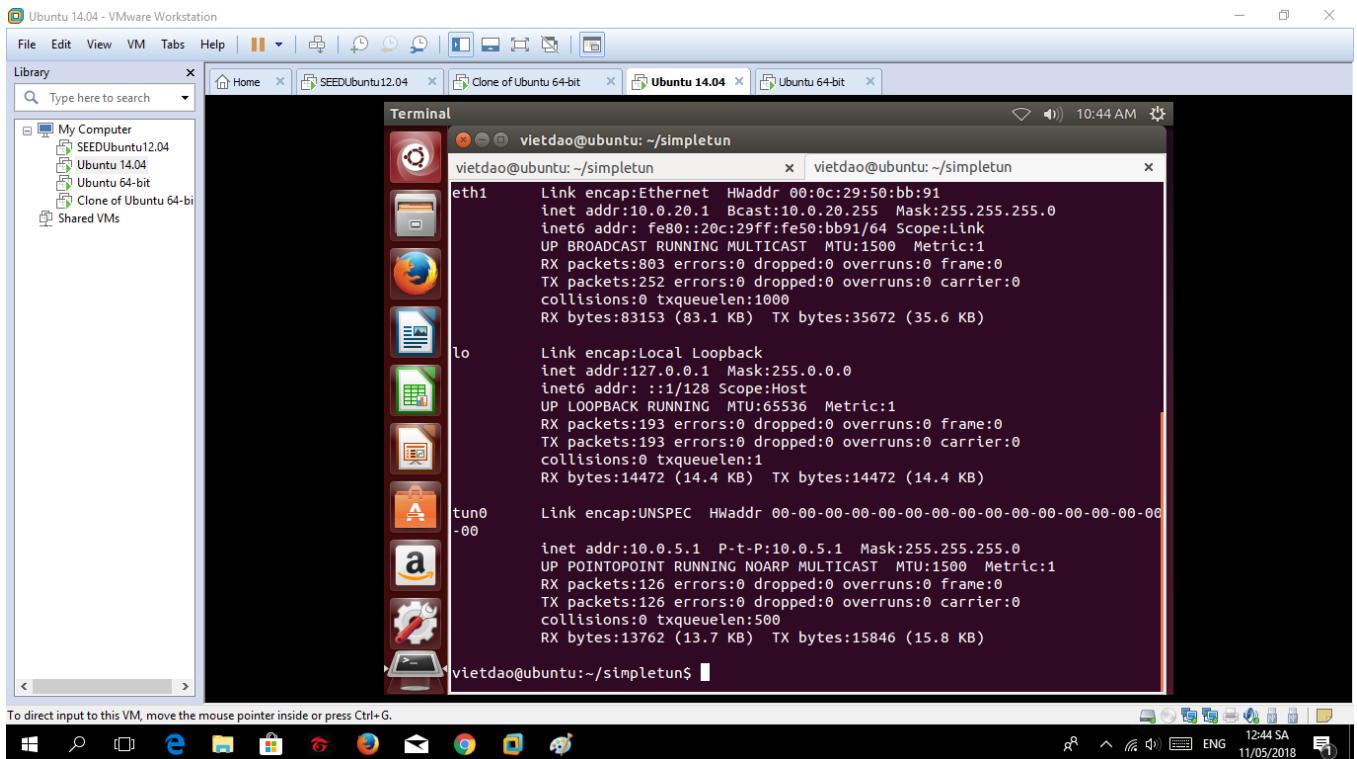
```

vietdao@ubuntu:~/simpletun
vietdao@ubuntu:~/simpletun$ ifconfig
eth0      Link encap:Ethernet HWaddr 00:0c:29:50:bb:87
          inet addr:192.168.63.255 Bcast:192.168.63.255 Mask:255.255.192.0
          inet6 addr: fe80::20c:29ff:fe50:bb87/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:996 errors:0 dropped:0 overruns:0 frame:0
          TX packets:857 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:100930 (100.9 KB) TX bytes:92370 (92.3 KB)

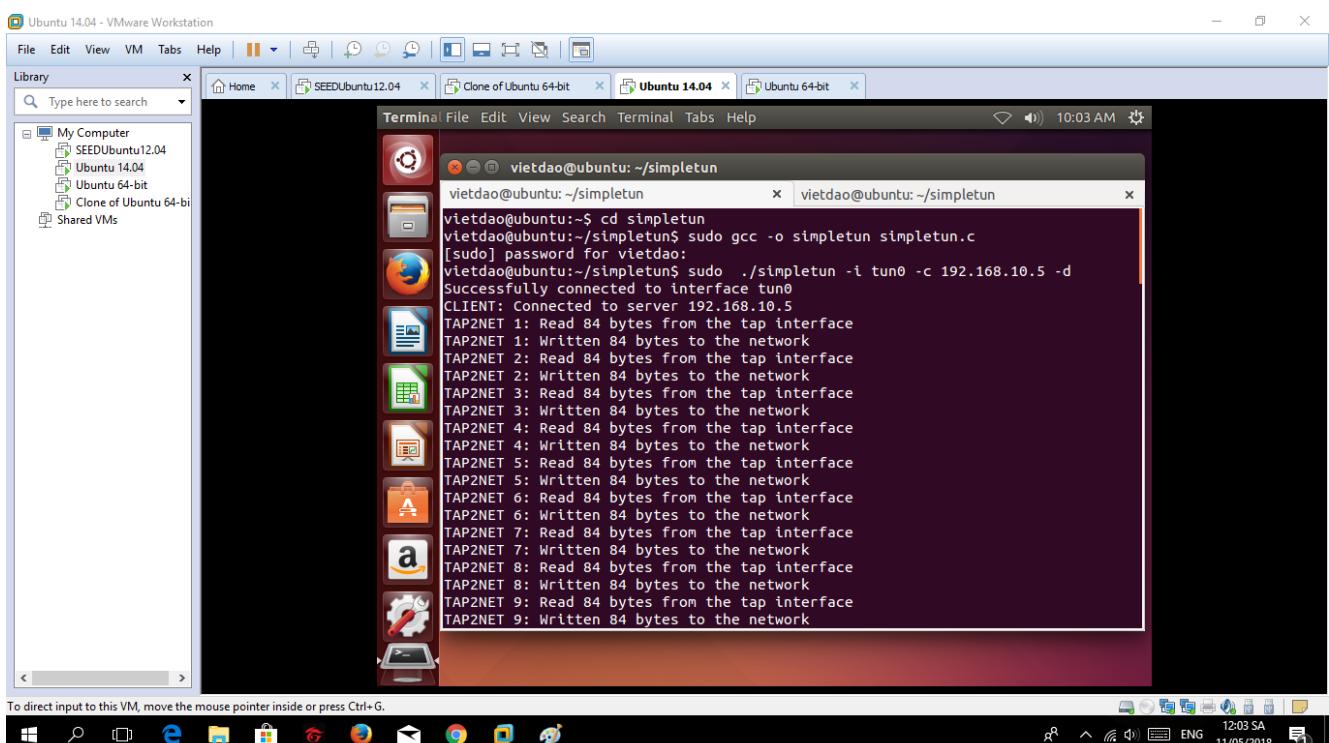
eth1      Link encap:Ethernet HWaddr 00:0c:29:50:bb:91
          inet addr:10.0.20.1 Bcast:10.0.20.255 Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe50:bb91/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:803 errors:0 dropped:0 overruns:0 frame:0
          TX packets:252 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:83153 (83.1 KB) TX bytes:35672 (35.6 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:193 errors:0 dropped:0 overruns:0 frame:0
          TX packets:193 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:14472 (14.4 KB) TX bytes:14472 (14.4 KB)

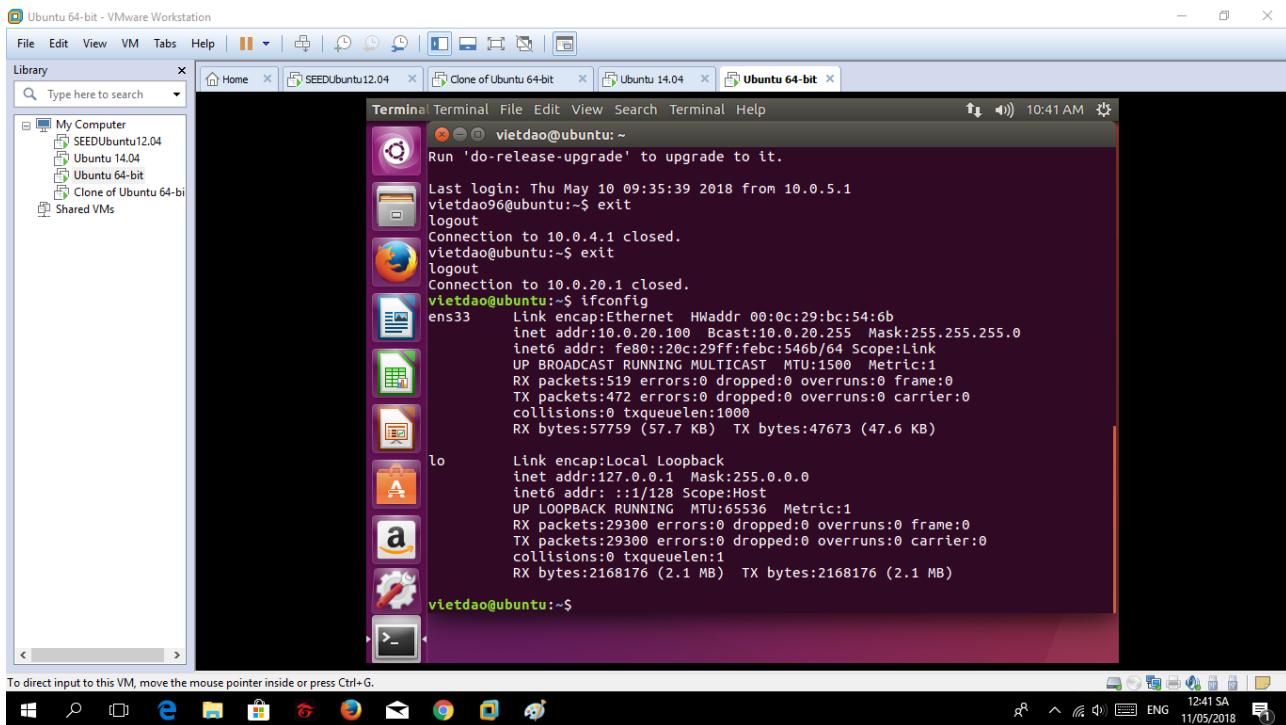
```



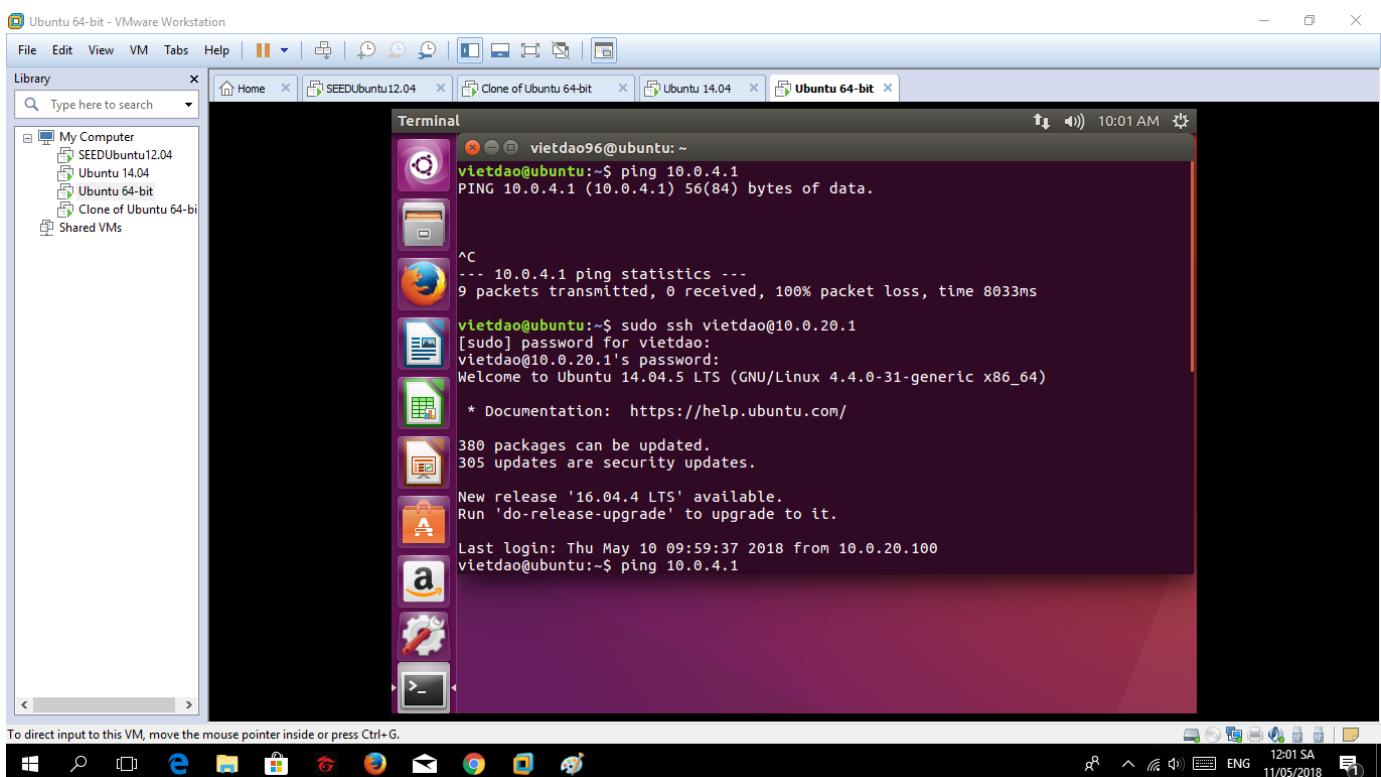
Kết quả trạng thái TUN /TAP nhìn trên getway Ubuntu14 :

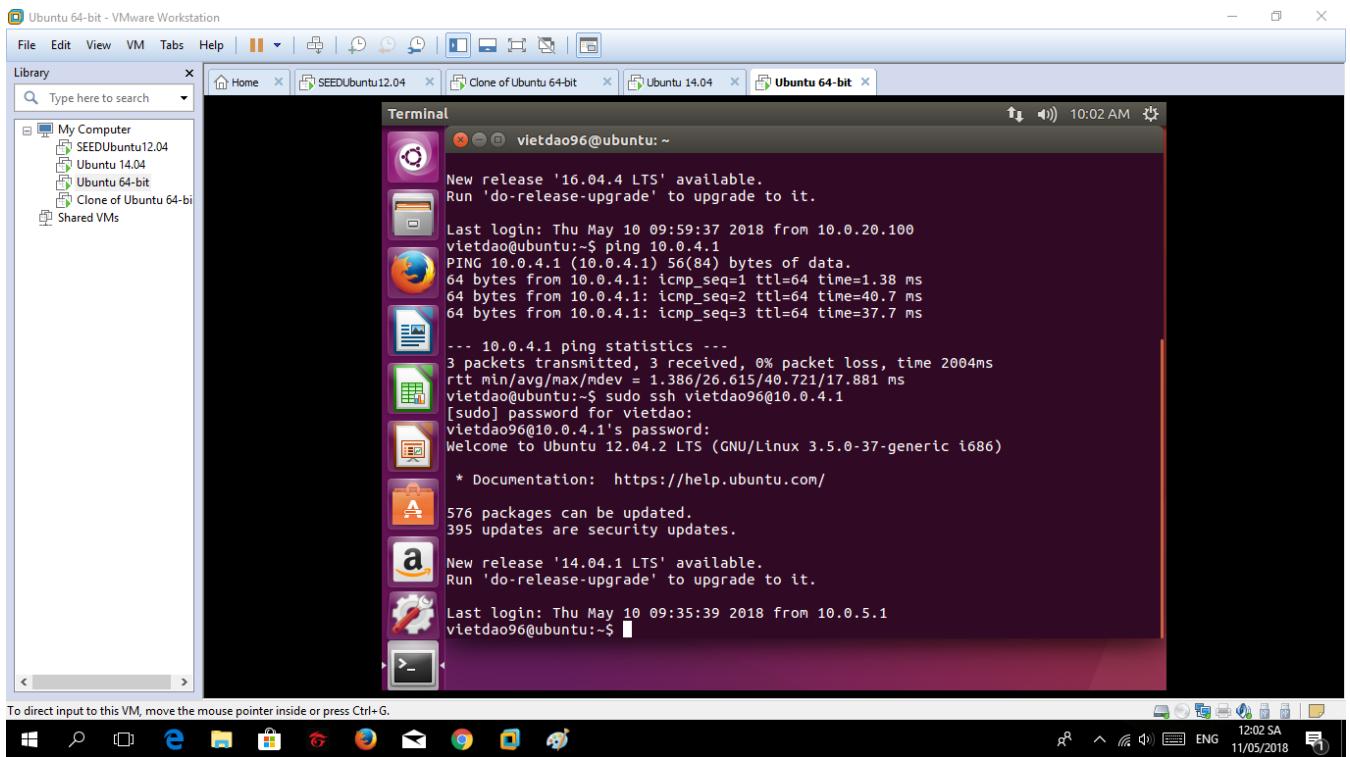


Cấu hình máy host Ubuntu 64:

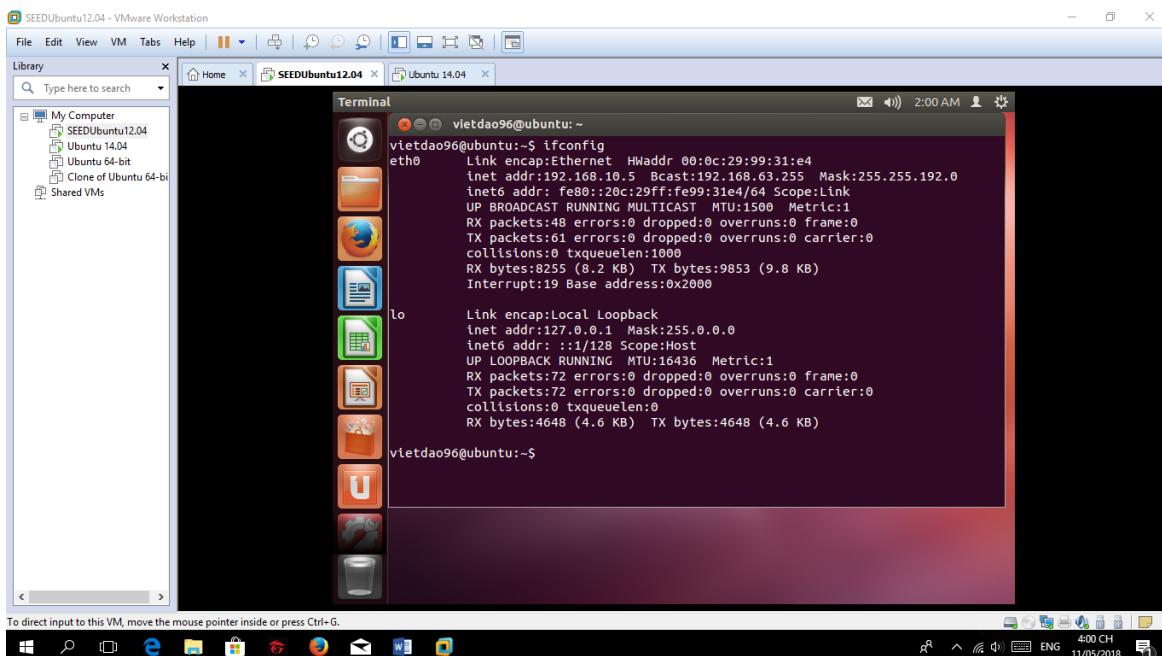


Kết quả ping và ssh từ máy host Ubuntu 64 của gateway Ubuntu14 đến host SEEDUbuntu12:

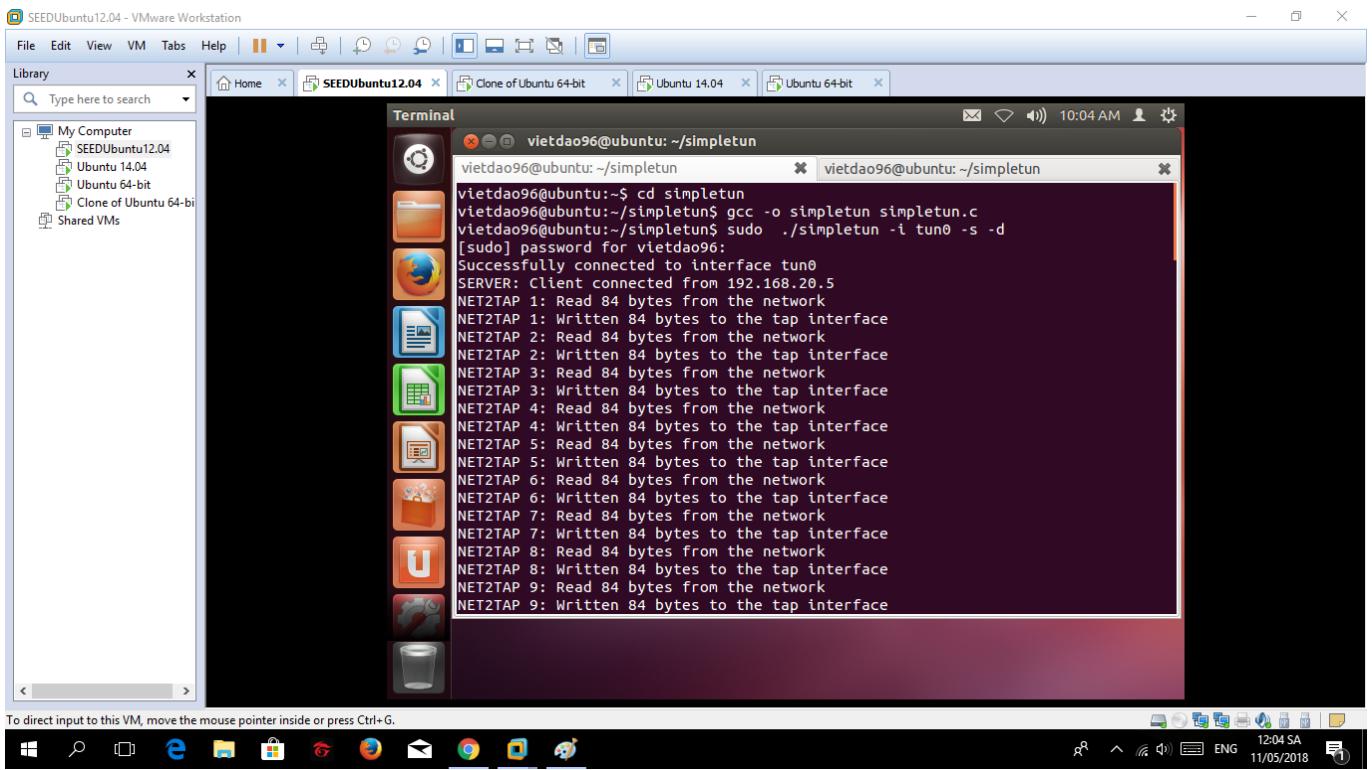




Máy SEEDUbuntu12 là host:

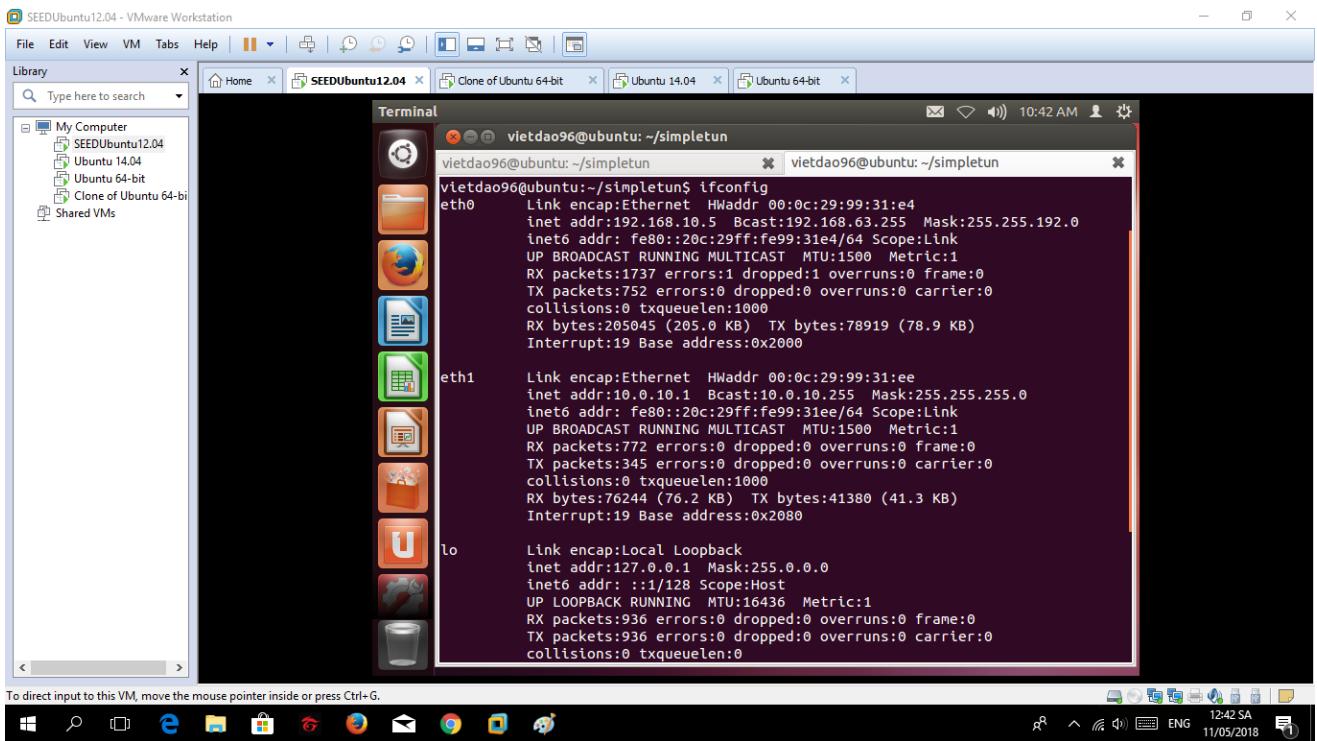


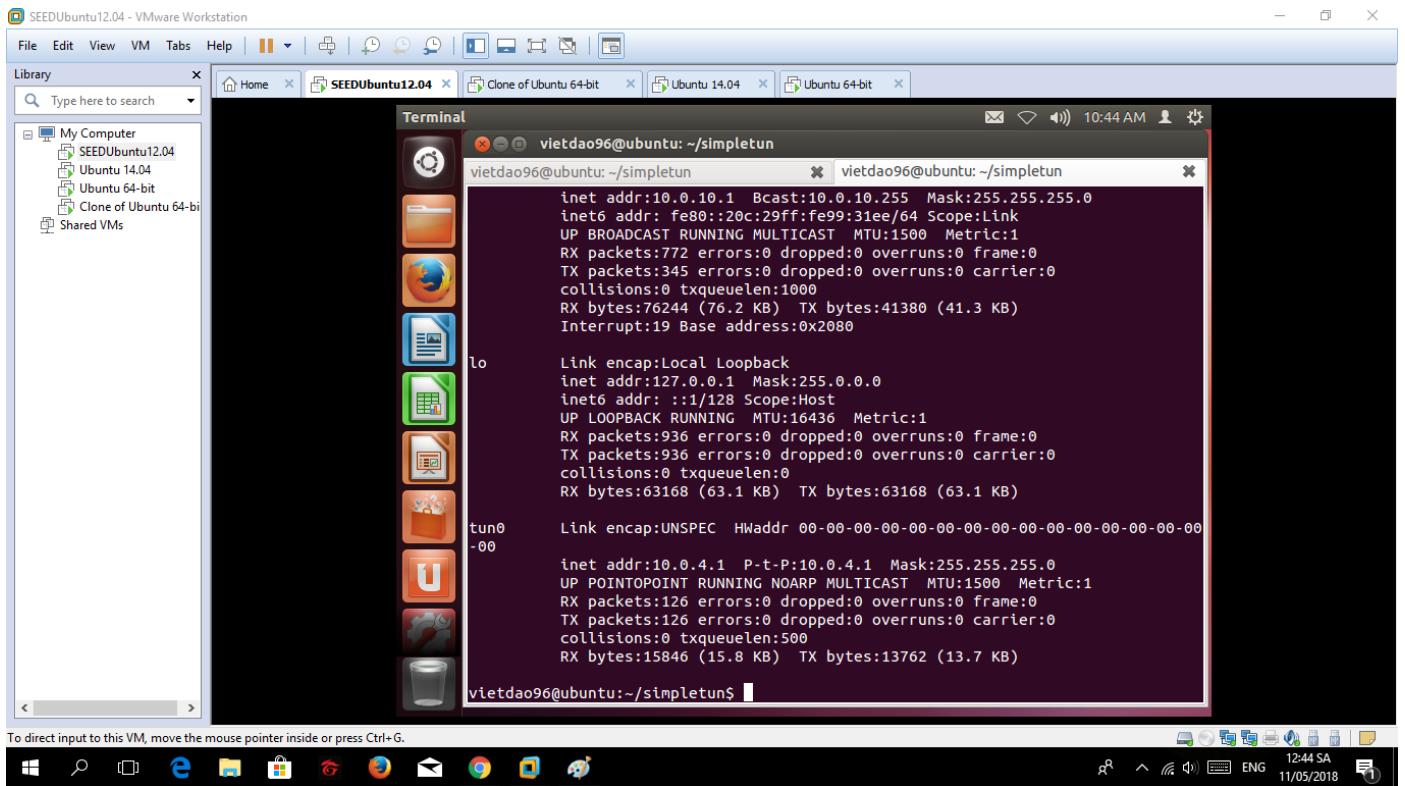
Kết quả trạng thái kết nối TUN/TAP nhìn trên host:



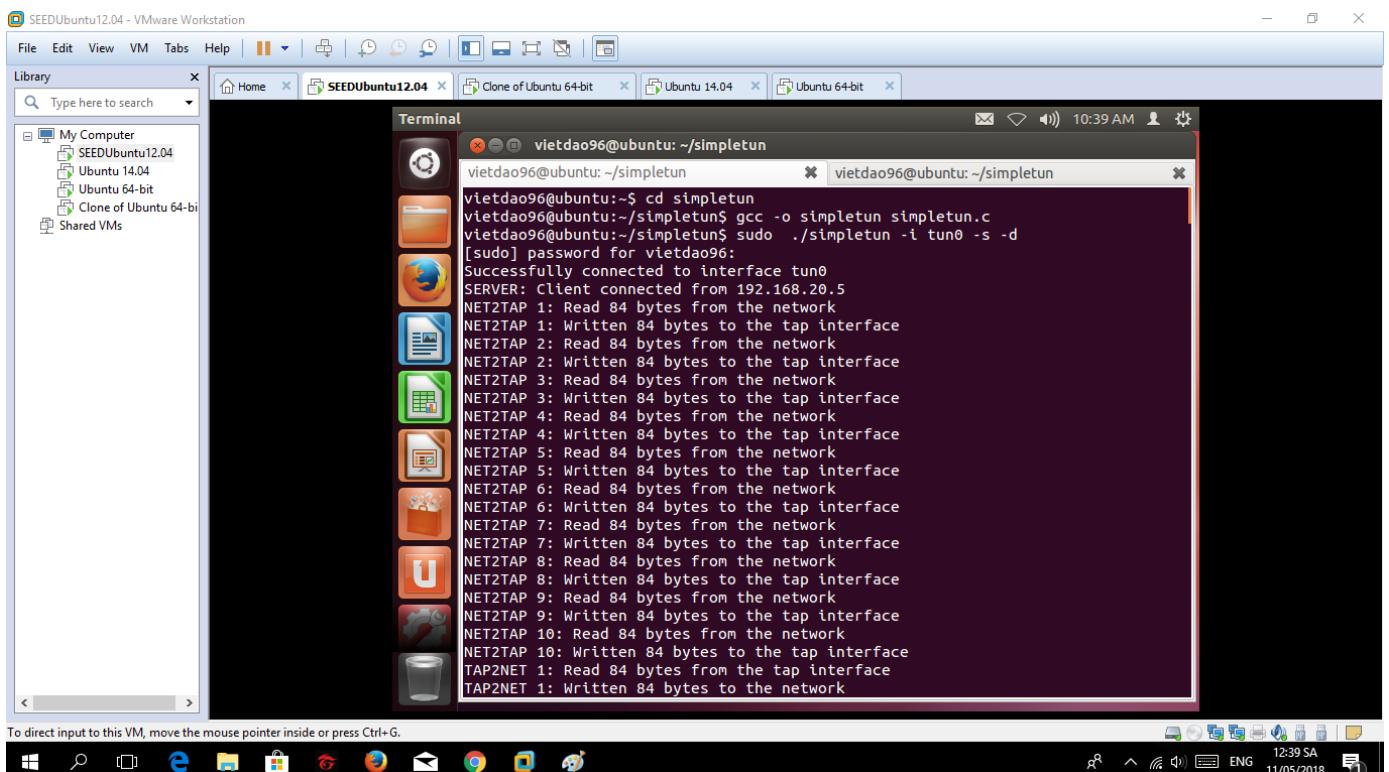
## Task 3 gateway to gateway

Cấu hình tiếp máy SEEDubuntu12 thành gateway:

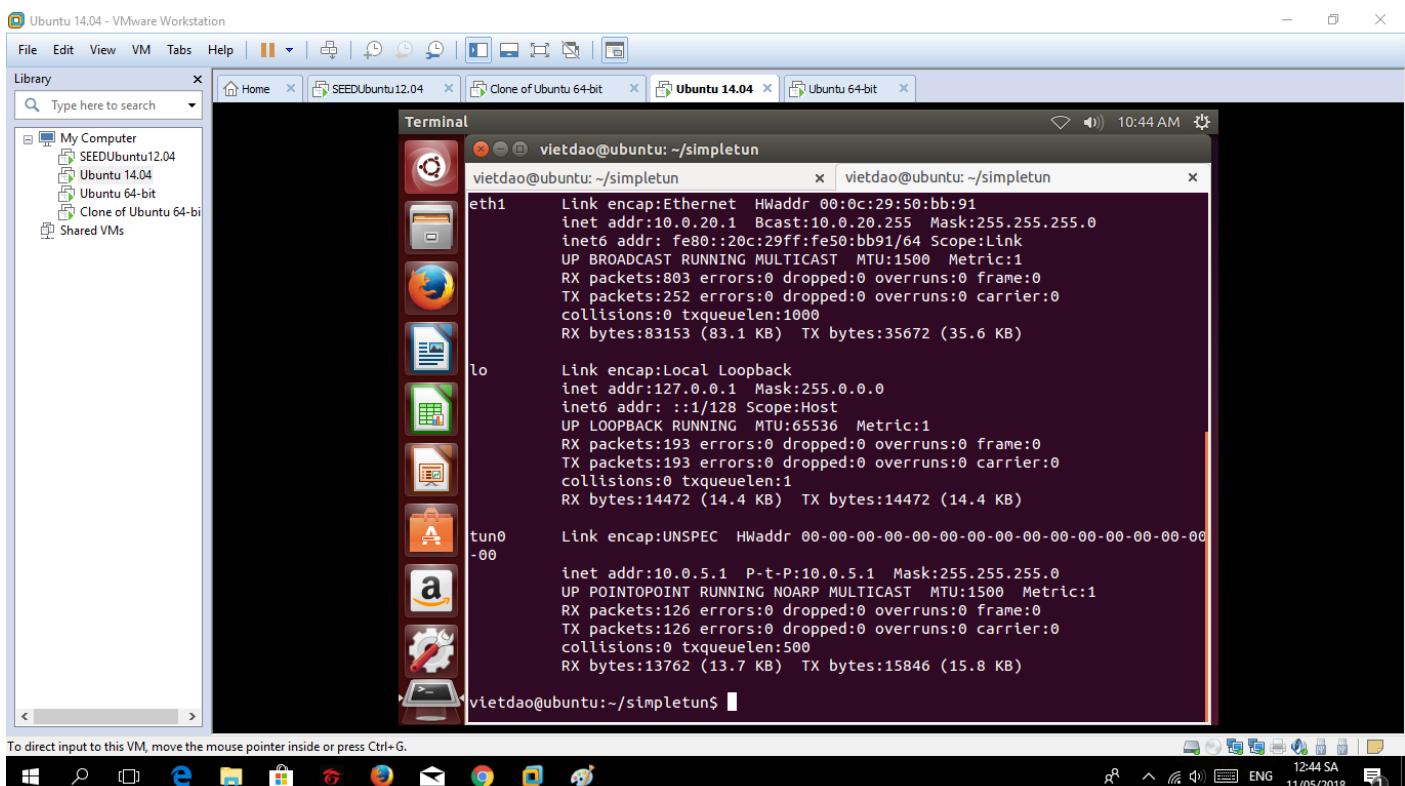
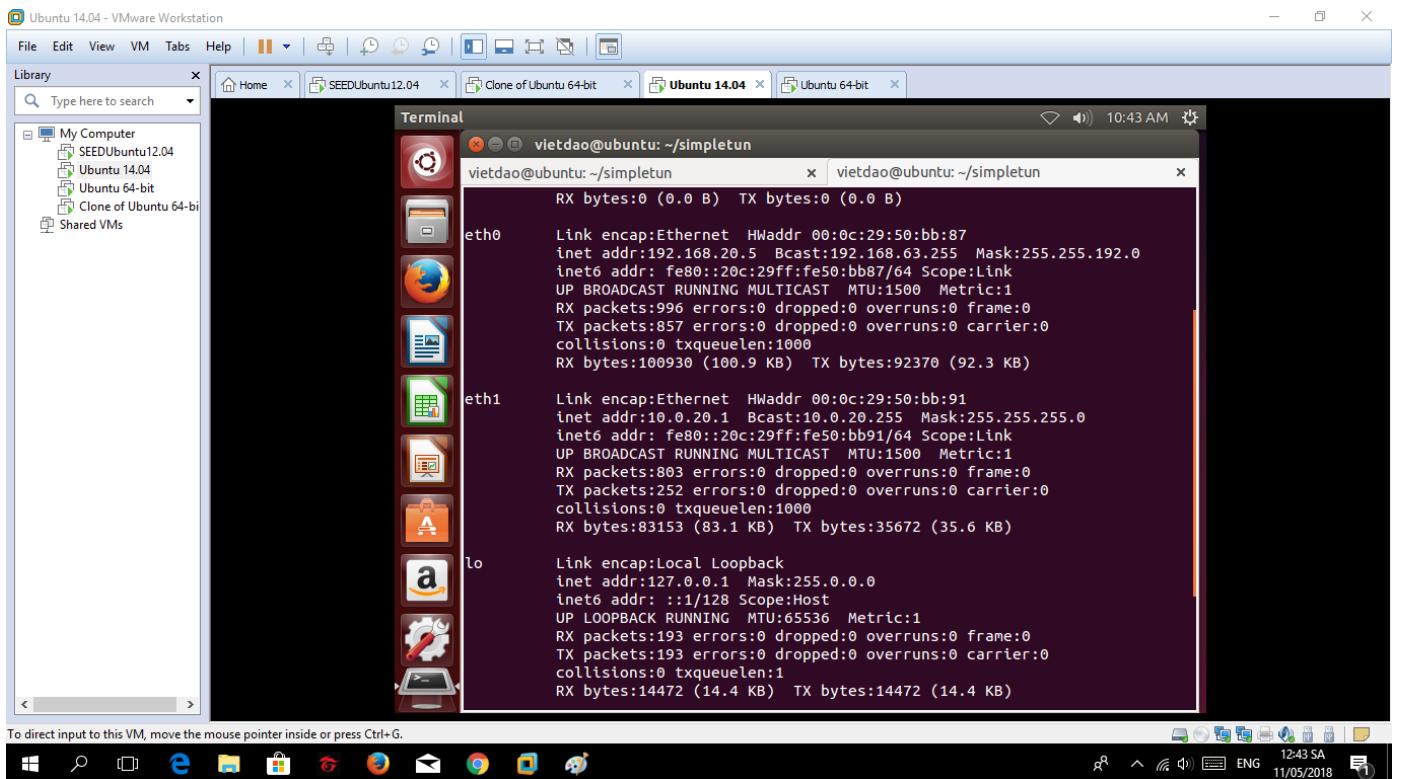




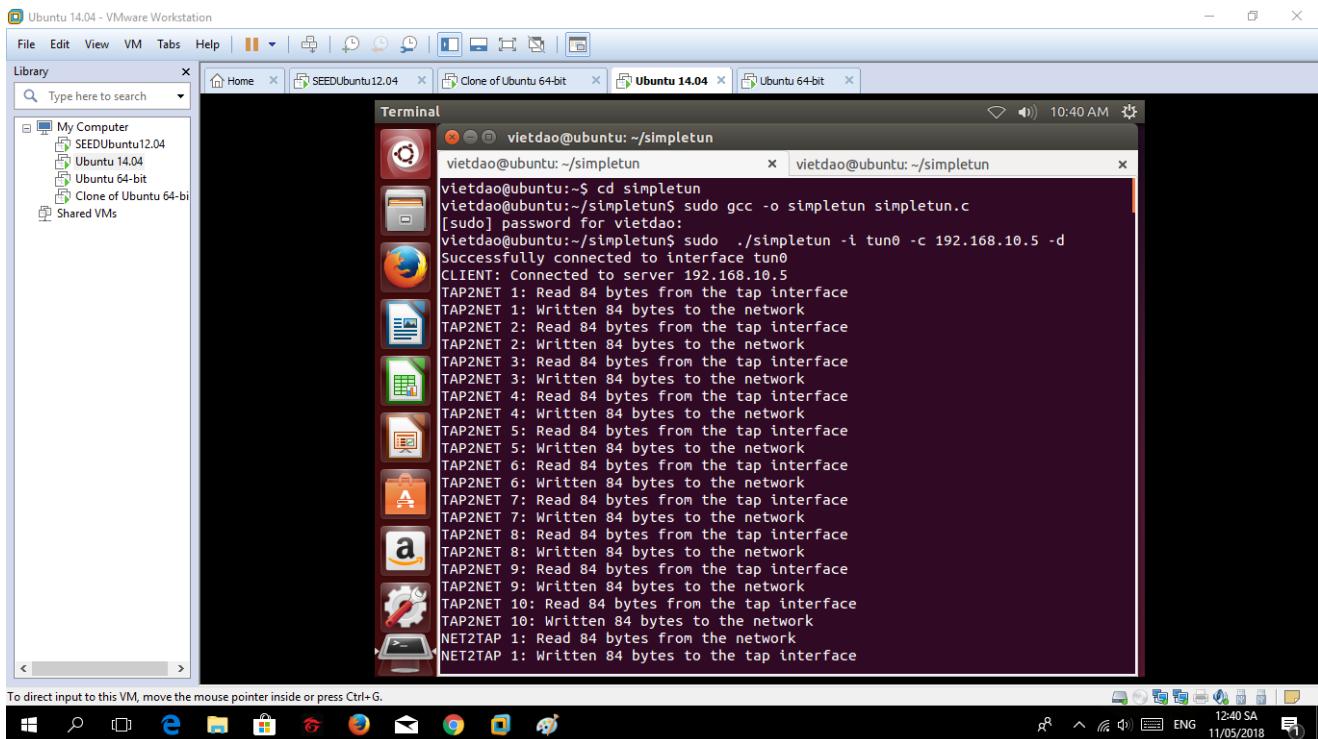
Kết quả trạng thái khi kết nối TUN/TAP nhìn từ máy SEEDubuntu 12:



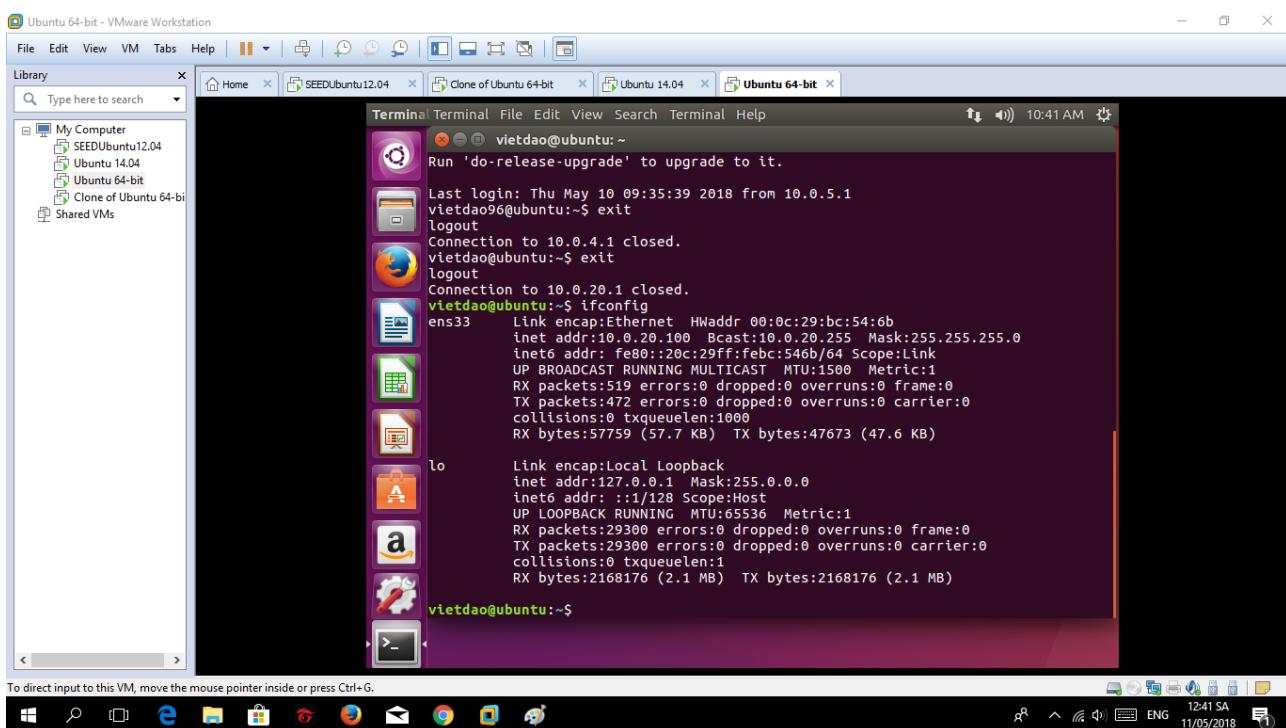
Máy ubuntu14 là 1 gateway :



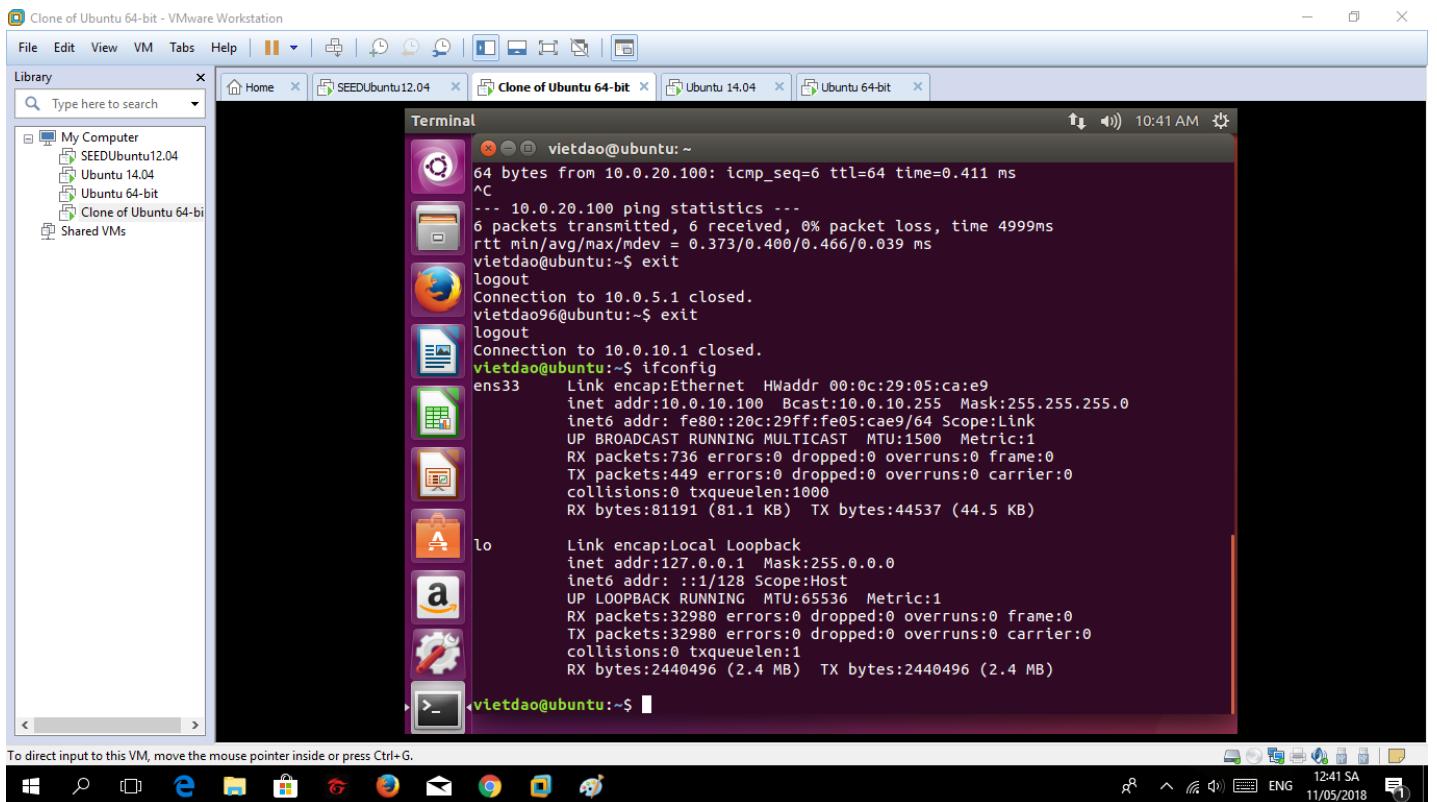
Tương tự kết quả trạng thái TUN/TAP khi nhìn trên máy ubuntu14:



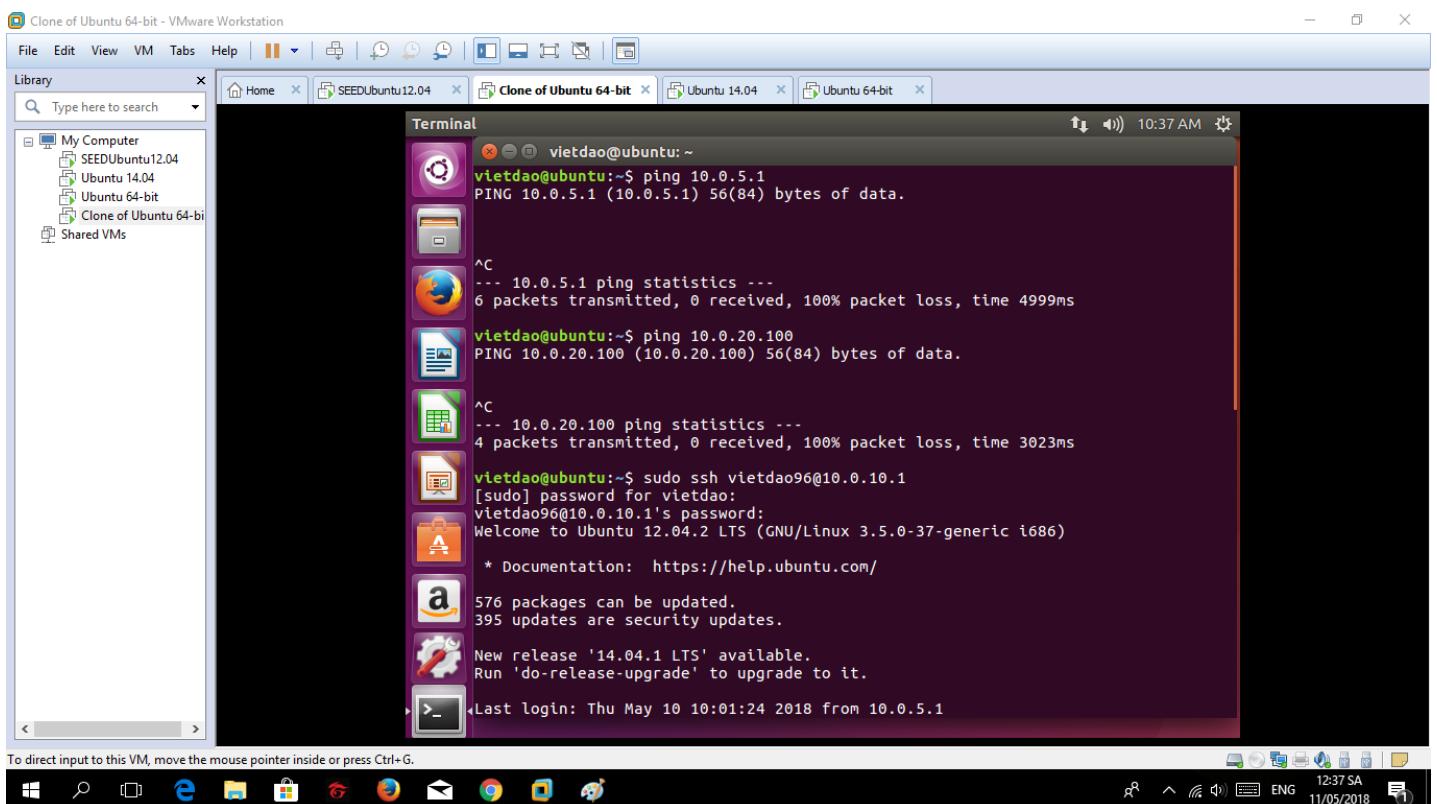
Cấu hình máy host ubuntu 64:

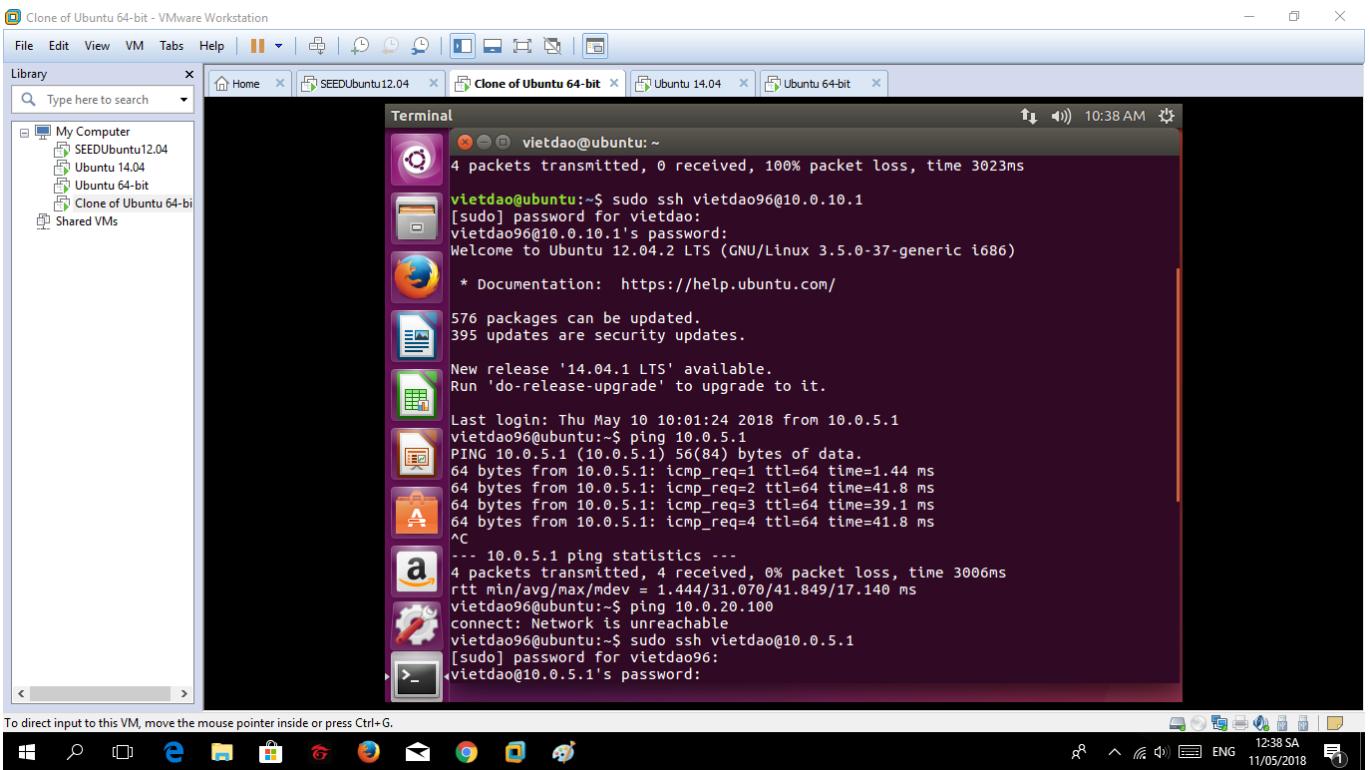


Cấu hình máy host clone\_ubuntu 64:

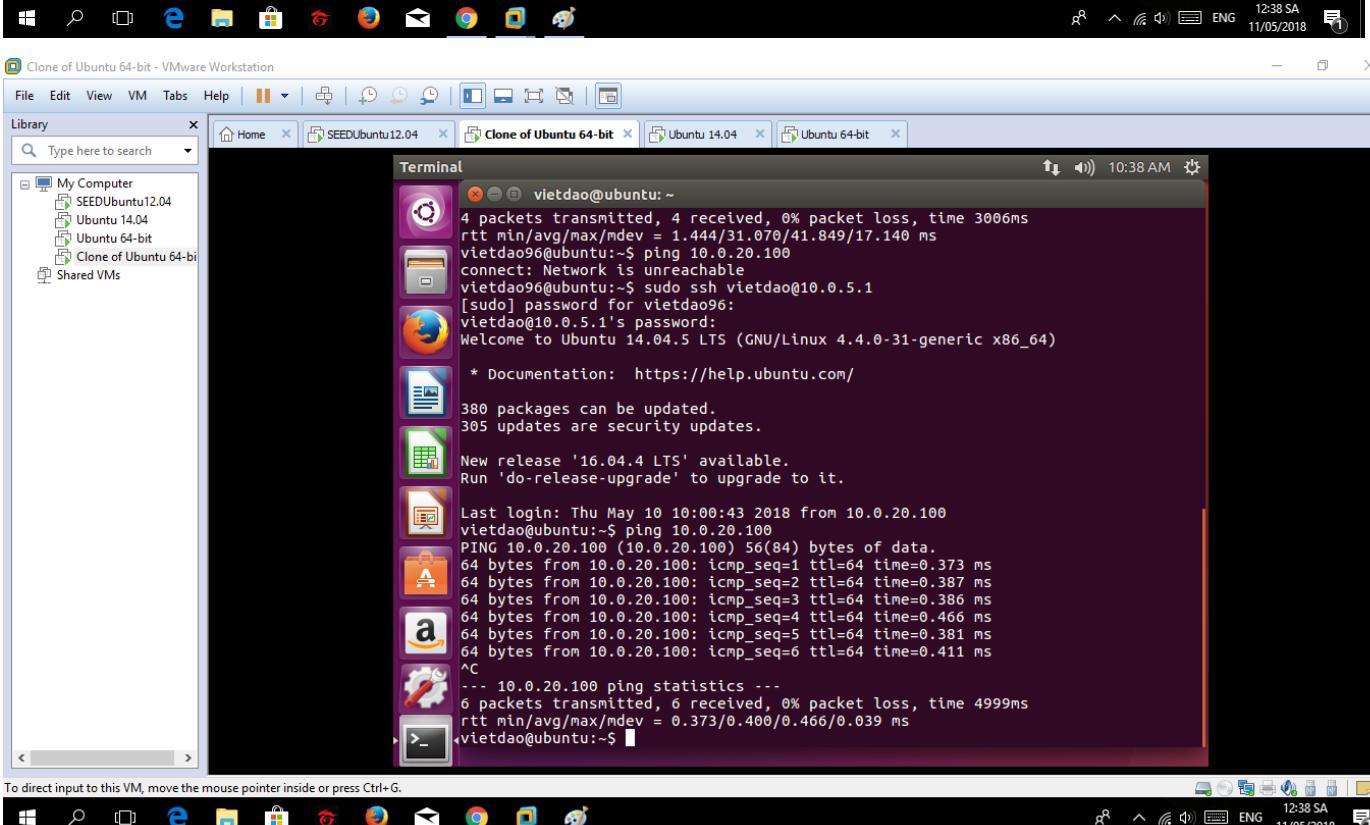


Kết quả ping và ssh từ 1 máy host clone\_Ubuntu 64 trong mạng của gateway SEEDubuntu 12 sang gateway ubuntu14 và host bên trong:





To direct input to this VM, move the mouse pointer inside or press Ctrl+G.



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