VPN Task 1 and Task 2

10.0.2.22: VPN Server

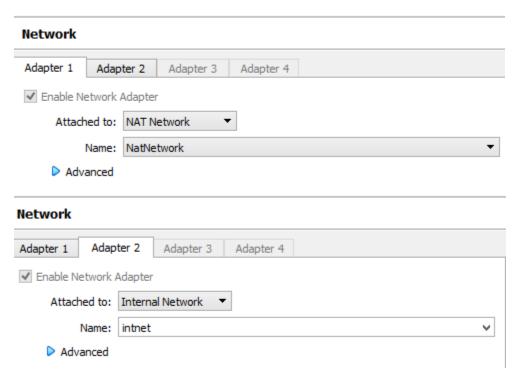
10.0.2.15: VPN Client (Host U)

10.0.2.10: Host V

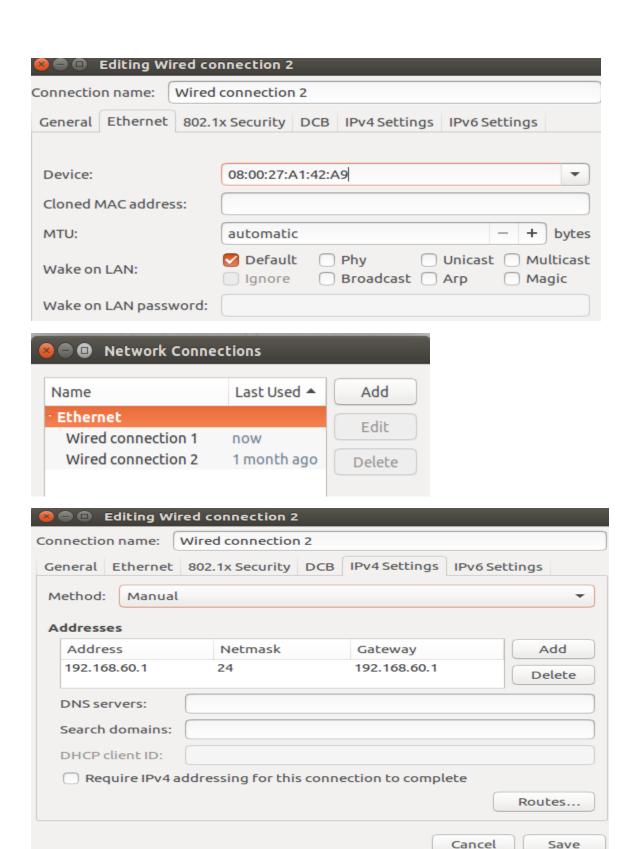
Task 1: VM Setup:

VPN Server:

In the VPN server we enable two Network adapters (interfaces), one adapter contains the original mac address of the server. We manually configure the other network adapter to be the gateway to the internal network.

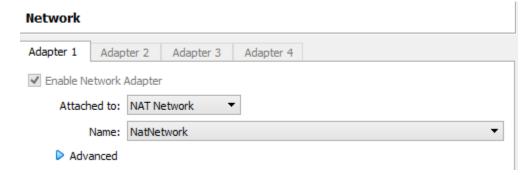






```
[03/26/2020 19:51] Rakshith-10.0.2.22@VM:~/.../vpn$ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 :: 1/128 scope host
       valid lft forever preferred lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000 link/ether 08:00:27:fa:24:f5 brd ff:ff:ff:ff:ff
    inet 10.0.2.22/24 brd 10.0.2.255 scope global dynamic enp0s3
       valid_lft 1124sec preferred_lft 1124sec
    inet6 fe80::e146:4544:9715:1084/64 scope link
       valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:a1:42:a9 brd ff:ff:ff:ff:ff:ff
    inet 192.168.60.1/24 brd 192.168.60.255 scope global enp0s8
       valid_lft forever preferred_lft forever
    inet6 fe80::215f:64c8:419f:5aa6/64 scope link
       valid_lft forever preferred_lft forever
```

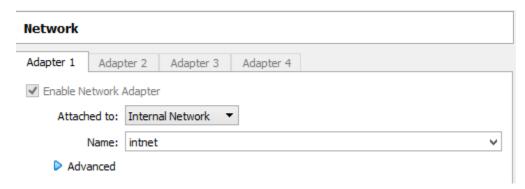
Host U or Client:



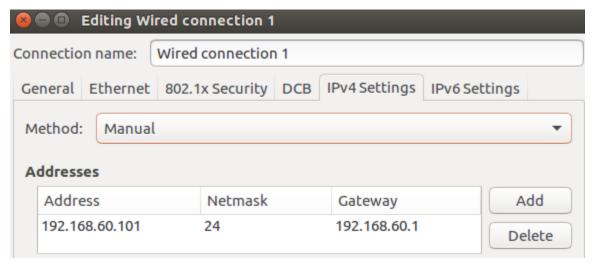
There are no additional configurations required for the client network / host U yet.

```
[03/25/2020 23:05] Rakshith-10.0.2.15@VM:~/vpn$ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:cb:0d:d0 brd ff:ff:ff:ff:
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 1111sec preferred_lft 1111sec
    inet6 fe80::df3f:2f1a:dc4a:2401/64 scope link
        valid_lft forever preferred_lft forever
```

Host V or Internal Network:



Host V or Internal Network is part of VPN server's network where clients would like to connect. To simulate this we disconnect a VM from the original NAT network, we manually configure an IP address to this host and configure the gateway which matches the VPN Server's gateway that we configured.



```
[03/26/2020 20:00] Rakshith-10.0.2.10@VM:~$ip a

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 08:00:27:3b:2b:b3 brd ff:ff:ff:ff:ff
inet 192.168.60.101/24 brd 192.168.60.255 scope global enp0s3
valid_lft forever preferred_lft forever
inet6 fe80::f90c:59a8:65c4:6084/64 scope link
valid_lft forever preferred_lft forever

[03/26/2020 20:00] Rakshith-10.0.2.10@VM:~$■
```

Step 1: Run VPN Server:

In this step we are creating a tunnel interface, and we are enabling the routing capabilities to our server.

```
[03/25/2020 17:21] Rakshith-10.0.2.22@VM:~/VPN-lab$unzip vpn.zip
Archive: vpn.zip
  creating: vpn/
  inflating: vpn/README
  inflating: vpn/vpnclient.c
 inflating: vpn/Makefile
 inflating: vpn/vpnserver.c
[03/25/2020 17:21] Rakshith-10.0.2.22@VM:~/VPN-lab$ls
VDR
     VDD.Z1D
[03/25/2020 17:21] Rakshith-10.0.2.22@VM:~/VPN-lab$cd vpn/
[03/25/2020 17:21] Rakshith-10.0.2.22@VM:~/.../vpn$ls
Makefile README vpnclient.c vpnserver.c
[03/25/2020 17:21] Rakshith-10.0.2.22@VM:~/.../vpn$vi vpnserver.c
[03/25/2020 17:27] Rakshith-10.0.2.22@VM:~/.../vpn$qcc -o vpnserver vpnserver.c
[03/25/2020 17:27] Rakshith-10.0.2.22@VM:~/.../vpn$ls
Makefile README vpnclient.c vpnserver vpnserver.c
[03/25/2020 17:27] Rakshith-10.0.2.22@VM:~/.../vpn$sudo ./vpnserver
[sudo] password for seed:
```

```
/bin/bash 161x3
[03/25/2020 17:28] Rakshith-10.0.2.22@VM:~/.../vpn$sudo ifconfig tun0 192.168.53.1/24 up
[sudo] password for seed:
[03/25/2020 17:28] Rakshith-10.0.2.22@VM:~/.../vpn$sudo sysctl net.ipv4.ip forward=1
net.ipv4.ip_forward = 1
[03/25/2020 17:29] Rakshith-10.0.2.22@VM:~/.../vpn$
tun0
         inet addr:192.168.53.1 P-t-P:192.168.53.1 Mask:255.255.25.0
         inet6 addr: fe80::2590:5c86:65c3:f12b/64 Scope:Link
         UP POINTOPOINT RUNNING NOARP MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:500
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
[03/25/2020 17:30] Rakshith-10.0.2.22@VM:~/.../vpn$
```

Step 2: Run VPN Client

In this step we are creating a tunnel interface in the client and enabling it.

```
[03/25/2020 17:36] Rakshith-10.0.2.15@VM:-$scp 10.0.2.22:/home/seed/Downloads/vpn.zip .
The authenticity of host '10.0.2.22 (10.0.2.22)' can't be established.
ECDSA key fingerprint is SHA256:plzAio6clb1-8HDp5xa+eKRi561aFDaPE1/xqleYzCI.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.2.22' (ECDSA) to the list of known hosts.
seed@10.0.2.22's password:
vpn.zip
                                                                                            100% 2728 2.7KB/s 00:00
[03/25/2020 17:37] Rakshith-10.0.2.15@VM:~$unzip vpn.zip
Archive: vpn.zip
    creating: vpn/
   inflating: vpn/README
   inflating: vpn/vpnclient.c
   inflating: vpn/Makefile
   inflating: vpn/vpnserver.c
[03/25/2020 17:37] Rakshith-10.0.2.15@VM:~$cd vpn
[03/25/2020 17:37] Rakshith-10.0.2.15@VM:~/vpn$ls
Makefile README vpnclient.c vpnserver.c
[03/25/2020 17:37] Rakshith-10.0.2.15@VM:~/vpn$
[03/25/2020 17:58] Rakshith-10.0.2.15@VM:~/vpn$gcc -o vpnclient vpnclient.c
[03/25/2020 17:59] Rakshith-10.0.2.15@VM:~/vpn$sudo ./vpnclient
[sudo] password for seed:
Got a packet from the tunnel
Got a packet from the tunnel
Got a packet from the tunnel
Got a packet from TUN
Got a packet from TUN
Got a packet from TUN
```

[03/25/2020 17:42] Rakshith-10.0.2.15@VM:~/vpn\$sudo ifconfig tun0 192.168.53.5/24 up [sudo] password for seed:

Step 3: Set Up Routing on Client and Server VMs:

On Client VM:

We manually add two routes to our client VM one if the prefix of our tunnel interface and other is the prefix of internal network of VPN server and we route them via our tunnel interface.

```
[03/25/2020 17:59] Rakshith-10.0.2.15@VM:~/vpn$sudo route add -net 192.168.60.0/24 tun0 [03/25/2020 18:08] Rakshith-10.0.2.15@VM:~/vpn$sudo route add -net 192.168.53.0/24 tun0 [03/25/2020 18:11] Rakshith-10.0.2.15@VM:~/vpn$
```

On Server VM:

We manually add routes of our tunnel interface and route it via tun0.

```
[03/25/2020 17:31] Rakshith-10.0.2.22@VM:~/.../vpn$sudo route add -net 192.168.53.0/24 tun0 [sudo] password for seed: [03/25/2020 18:11] Rakshith-10.0.2.22@VM:~/.../vpn$
```

Step 4: Set Up Routing on Host V:

All traffic in Host V must pass through VPN server, so we add the VPN server's route to it and route it via the sole interface.

```
[03/26/2020 20:00] Rakshith-10.0.2.10@VM:~$sudo route add -net 10.0.2.0/24 enp0s3 [sudo] password for seed: [03/26/2020 20:14] Rakshith-10.0.2.10@VM:~$
```

Step 5: Test the VPN Tunnel:

Ping Host V from Host U

We are trying to ping Host V by Host U (client network), and we are successfully able to connect to it, as we can see in the wireshark we get the desired results our packets are encapsulated inside original client's software, then reach VPN server and then get routed to the host V.

```
[03/26/2020 22:46] Rakshith-10.0.2.15@VM:~/vpn$route -n
Kernel IP routing table
Destination
                Gateway
                                 Genmask
                                                 Flags Metric Ref
                                                                      Use Iface
0.0.0.0
                10.0.2.1
                                 0.0.0.0
                                                 UG
                                                        100
                                                               0
                                                                        0 enp0s3
10.0.2.0
                0.0.0.0
                                 255.255.255.0
                                                 II
                                                        100
                                                               Θ
                                                                        0 enp0s3
169.254.0.0
                                 255.255.0.0
                0.0.0.0
                                                 U
                                                        1000
                                                               Θ
                                                                        0 enp0s3
192.168.53.0
                0.0.0.0
                                 255.255.255.0
                                                 U
                                                        0
                                                               Θ
                                                                        0 tun0
192.168.53.0
                0.0.0.0
                                                 U
                                                               0
                                                                        0 tun0
                                 255.255.255.0
                                                        0
192.168.60.0
                0.0.0.0
                                 255.255.255.0
                                                        0
                                                                        0 tun0
```

```
[03/26/2020 22:21] Rakshith-10.0.2.22@VM:~/.../vpn$route -n
Kernel IP routing table
Destination
               Gateway
                              Genmask
                                              Flags Metric Ref
                                                                 Use Iface
0.0.0.0
               10.0.2.1
                              0.0.0.0
                                              UG
                                                    100 0
                                                                0 enp0s3
0.0.0.0
               192.168.60.1
                              0.0.0.0
                                              UG
                                                    101
                                                          0
                                                                   0 enp0s8
10.0.2.0
               0.0.0.0
                              255.255.255.0
                                              U
                                                    100
                                                          0
                                                                   0 enp0s3
169.254.0.0
               0.0.0.0
                              255.255.0.0
                                              U
                                                    1000
                                                          0
                                                                   0 enp0s3
192.168.53.0
            0.0.0.0
                              255.255.255.0
                                              U
                                                    Θ
                                                          0
                                                                   0 tun0
                                                                   0 tun0
192.168.53.0
               0.0.0.0
                              255.255.255.0
                                              U
                                                    Θ
                                                          0
               0.0.0.0
192.168.60.0
                              255.255.255.0
                                              U
                                                    100
                                                          0
                                                                   0 enp0s8
[03/26/2020 22:37] Rakshith-10.0.2.22@VM:~/.../vpn$
```

```
[03/26/2020 22:21] Rakshith-10.0.2.22@VM:~/.../vpn$sudo ./vpnserver
[sudo] password for seed:
Connected with the client:
Got a packet from TUN
Got a packet from TUN
Got a packet from TUN
Got a packet from the tunnel
Got a packet from TUN
```

```
[03/26/2020 21:14] Rakshith-10.0.2.15@VM:~/vpn$ping 192.168.60.101
PING 192.168.60.101 (192.168.60.101) 56(84) bytes of data.
64 bytes from 192.168.60.101: icmp_seq=1 ttl=63 time=2.76 ms
64 bytes from 192.168.60.101: icmp_seq=2 ttl=63 time=4.23 ms
64 bytes from 192.168.60.101: icmp_seq=3 ttl=63 time=2.23 ms
64 bytes from 192.168.60.101: icmp_seq=4 ttl=63 time=2.43 ms
64 bytes from 192.168.60.101: icmp_seq=5 ttl=63 time=2.71 ms
64 bytes from 192.168.60.101: icmp_seq=5 ttl=63 time=2.71 ms
65 packets transmitted, 5 received, 0% packet loss, time 4006ms
66 rtt min/avg/max/mdev = 2.232/2.875/4.230/0.707 ms
67 [03/26/2020 21:14] Rakshith-10.0.2.15@VM:~/vpn$
```

	2 2020-03-26 21 192.168.53.5	192.168.60.101	ICMP	100 Echo (ping) request id=0x1d9f, seq=1/256, ttl=64 (reply i
	3 2020-03-26 21 10.0.2.15	10.0.2.22	UDP	128 53113 → 55555 Len=84
	4 2020-03-26 21 10.0.2.22	10.0.2.15	UDP	128 55555 → 53113 Len=84
	5 2020-03-26 21 192.168.60.101	192.168.53.5	ICMP	100 Echo (ping) reply id=0x1d9f, seq=1/256, ttl=63 (request
	6 2020-03-26 21 192.168.53.5	192.168.60.101	ICMP	100 Echo (ping) request id=0x1d9f, seq=2/512, ttl=64 (reply i
i	7 2020-03-26 21 10.0.2.15	10.0.2.22	UDP	128 53113 → 55555 Len=84
	8 2020-03-26 21 10.0.2.22	10.0.2.15	UDP	128 55555 → 53113 Len=84
	9 2020-03-26 21 192.168.60.101	192.168.53.5	ICMP	100 Echo (ping) reply id=0x1d9f, seq=2/512, ttl=63 (request
	10 2020-03-26 21 192.168.53.5	192.168.60.101	ICMP	100 Echo (ping) request id=0x1d9f, seq=3/768, ttl=64 (reply i
İ	11 2020-03-26 21 10.0.2.15	10.0.2.22	UDP	128 53113 → 55555 Len=84
	12 2020-03-26 21 10.0.2.22	10.0.2.15	UDP	128 55555 → 53113 Len=84
	13 2020-03-26 21 192.168.60.101	192.168.53.5	ICMP	100 Echo (ping) reply id=0x1d9f, seq=3/768, ttl=63 (request
	14 2020-03-26 21 192.168.53.5	192.168.60.101	ICMP	100 Echo (ping) request id=0x1d9f, seq=4/1024, ttl=64 (reply
İ	15 2020-03-26 21 10.0.2.15	10.0.2.22	UDP	128 53113 → 55555 Len=84
	16 2020-03-26 21 10.0.2.22	10.0.2.15	UDP	128 55555 → 53113 Len=84
	17 2020-03-26 21 192.168.60.101	192.168.53.5	ICMP	100 Echo (ping) reply id=0x1d9f, seq=4/1024, ttl=63 (reques
	18 2020-03-26 21 192.168.53.5	192.168.60.101	ICMP	100 Echo (ping) request id=0x1d9f, seq=5/1280, ttl=64 (reply
Ì	19 2020-03-26 21 10.0.2.15	10.0.2.22	UDP	128 53113 → 55555 Len=84
L	20 2020-03-26 21 10.0.2.22	10.0.2.15	UDP	128 55555 → 53113 Len=84

Telnet Host V from Host U

```
[03/26/2020 21:17] Rakshith-10.0.2.15@VM:~/vpn$telnet 192.168.60.101
Trying 192.168.60.101...
Connected to 192.168.60.101.
Escape character is '^]'.
Ubuntu 16.04.2 LTS
VM login: seed
Password:
Last login: Thu Mar 26 20:58:01 EDT 2020 from 192.168.53.5 on pts/18
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.8.0-36-generic i686)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
* Support:
                   https://ubuntu.com/advantage
1 package can be updated.
0 updates are security updates.
[03/26/2020 21:17] Rakshith-10.0.2.10@VM:~$
```

2 2020-03-26 21 192.16	68.53.5 192.168.60.101	TCP	76 38096 → 23 [SYN] Seq=1083998816 Win=29200 Len=0 MSS=1460 S
_ 3 2020-03-26 21 10.0.2			104 53113 → 55555 Len=60
4 2020-03-26 21 10.0.2	10.0.2.15	UDP	104 55555 → 53113 Len=60
5 2020-03-26 21 192.16	88.60.101 192.168.53.5	TCP	76 23 → 38096 [SYN, ACK] Seq=537445016 Ack=1083998817 Win=289
6 2020-03-26 21 192.16	8.53.5 192.168.60.101	TCP	68 38096 → 23 [ACK] Seq=1083998817 Ack=537445017 Win=29312 Le
7 2020-03-26 21 10.0.2	2.15 10.0.2.22	UDP	96 53113 → 55555 Len=52
8 2020-03-26 21 192.16	88.53.5 192.168.60.101	TELNET	95 Telnet Data
9 2020-03-26 21 10.0.2	2.15 10.0.2.22	UDP	123 53113 → 55555 Len=79
10 2020-03-26 21 10.0.2	10.0.2.15	UDP	96 55555 → 53113 Len=52
11 2020-03-26 21 192.16	8.60.101 192.168.53.5	TCP	68 23 → 38096 [ACK] Seq=537445017 Ack=1083998844 Win=29056 Le
12 2020-03-26 21 10.0.2	10.0.2.15	UDP	108 55555 → 53113 Len=64
13 2020-03-26 21 192.16	88.60.101 192.168.53.5	TELNET	80 Telnet Data
14 2020-03-26 21 192.16	8.53.5 192.168.60.101	TCP	68 38096 → 23 [ACK] Seq=1083998844 Ack=537445029 Win=29312 Le
15 2020-03-26 21 10.0.2	2.15 10.0.2.22	UDP	96 53113 → 55555 Len=52
16 2020-03-26 21 10.0.2	10.0.2.15	UDP	135 55555 → 53113 Len=91
17 2020-03-26 21 192.16	8.60.101 192.168.53.5	TELNET	107 Telnet Data
18 2020-03-26 21 192.16	88.53.5 192.168.60.101	TCP	68 38096 → 23 [ACK] Seq=1083998844 Ack=537445068 Win=29312 Le
19 2020-03-26 21 10.0.2	10.0.2.22	UDP	96 53113 → 55555 Len=52
20 2020-03-26 21 192.16	88.53.5 192.168.60.101	TELNET	134 Telnet Data
21 2020-03-26 21 10.0.2	2.15 10.0.2.22	UDP	162 53113 → 55555 Len=118

Decode as IPv4 in Wireshark to see packet encapsulation

```
▶ Frame 3: 104 bytes on wire (832 bits), 104 bytes captured (832 bits) on interface 0
▶ Linux cooked capture
▶ Internet Protocol Version 4, Src: 10.0.2.15, Dst: 10.0.2.22
▶ User Datagram Protocol, Src Port: 53113, Dst Port: 55555
▶ Internet Protocol Version 4, Src: 192.168.53.5, Dst: 192.168.60.101
▶ Transmission Control Protocol, Src Port: 38096, Dst Port: 23, Seq: 1083998816, Len: 0
```

Step 6: Tunnel-Breaking Test:

We can break the tunnel by bringing down the tunnel interface or by setting the tunnel link down. Once we do this our telnet connection will freeze. Once we bring the tunnel interface back up, the telnet connection will resume.

Initial configuration:

```
[03/26/2020 23:06] Rakshith-10.0.2.15@VM:~/vpn$telnet 192.168.60.101
Trying 192.168.60.101...
Connected to 192.168.60.101.
Escape character is '^]'.
Ubuntu 16.04.2 LTS
VM login: seed
Password:
Last login: Thu Mar 26 22:31:19 EDT 2020 from 192.168.53.5 on pts/20
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.8.0-36-generic i686)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/advantage
1 package can be updated.
O updates are security updates.
[03/26/2020 22:48] Rakshith-10.0.2.10@VM:~$
```

[03/26/2020 22:53] Rakshith-10.0.2.15@VM:~/vpn\$sudo ip link set tun0 down [sudo] password for seed: [03/26/2020 23:08] Rakshith-10.0.2.15@VM:~/vpn\$sudo ifconfig tun0 192.168.53.5/24 up

After session resumes

```
asddfhjsadhsjgfjgfjg: command not found [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$ asdfjsdfh not found [03/26/2020 22:51] Rakshith-10.0.2.10@VM:~$
```

When the session froze:

32 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52896 → 5037 [SYN] Seq=893043086 Win=43690 Len=0 MSS=65495
33 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52896 [RST, ACK] Seg=0 Ack=893043087 Win=0 Len=0
34 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52898 → 5037 [SYN] Seq=893043089 Win=43690 Len=0 MSS=65495
35 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52898 [RST, ACK] Seq=0 Ack=893043090 Win=0 Len=0
36 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52900 → 5037 [SYN] Seq=893043092 Win=43690 Len=0 MSS=65495
37 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52900 [RST, ACK] Seq=0 Ack=893043093 Win=0 Len=0
38 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52902 → 5037 [SYN] Seq=893043095 Win=43690 Len=0 MSS=65495
39 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52902 [RST, ACK] Seq=0 Ack=893043096 Win=0 Len=0
40 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52904 → 5037 [SYN] Seq=893043098 Win=43690 Len=0 MSS=65495
41 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52904 [RST, ACK] Seq=0 Ack=893043099 Win=0 Len=0
42 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52906 → 5037 [SYN] Seq=893043101 Win=43690 Len=0 MSS=65495
43 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52906 [RST, ACK] Seq=0 Ack=893043102 Win=0 Len=0
44 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52908 → 5037 [SYN] Seq=893043104 Win=43690 Len=0 MSS=65495
45 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52908 [RST, ACK] Seq=0 Ack=893043105 Win=0 Len=0
46 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52910 → 5037 [SYN] Seq=893043107 Win=43690 Len=0 MSS=65495
47 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52910 [RST, ACK] Seq=0 Ack=893043108 Win=0 Len=0
48 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52912 → 5037 [SYN] Seq=893043110 Win=43690 Len=0 MSS=65495
49 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52912 [RST, ACK] Seq=0 Ack=893043111 Win=0 Len=0
50 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	76 52914 → 5037 [SYN] Seq=893043113 Win=43690 Len=0 MSS=65495
51 2020-03-26 23 127.0.0.1	127.0.0.1	TCP	56 5037 → 52914 [RST, ACK] Seq=0 Ack=893043114 Win=0 Len=0

When the session resumes:

179 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	113 Telnet Data
180 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497385893 Win=237 Len=
181 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
182 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	139 55555 → 38545 Len=95
183 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	111 Telnet Data
184 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497385936 Win=237 Len=
185 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
186 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	98 55555 → 38545 Len=54
187 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	70 Telnet Data
188 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497385938 Win=237 Len=
189 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
190 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	139 55555 → 38545 Len=95
191 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	111 Telnet Data
192 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497385981 Win=237 Len=
193 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
194 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	98 55555 → 38545 Len=54
195 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	70 Telnet Data
196 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497385983 Win=237 Len=
197 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
198 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	139 55555 → 38545 Len=95
199 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	111 Telnet Data
200 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497386026 Win=237 Len=
201 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
202 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	98 55555 → 38545 Len=54
203 2020-03-26 23 192.168.60.101	192.168.53.5	TELNET	70 Telnet Data
204 2020-03-26 23 192.168.53.5	192.168.60.101	TCP	68 45390 → 23 [ACK] Seq=3024523107 Ack=497386028 Win=237 Len=
205 2020-03-26 23 10.0.2.15	10.0.2.22	UDP	96 38545 → 55555 Len=52
206 2020-03-26 23 10.0.2.22	10.0.2.15	UDP	186 55555 → 38545 Len=142