Procedure to enable internet over when the USB interface is not showing up.

Login into the target using username:debian Pwd:temppwd, then execute ifconfig (as shown in the Figure 1).

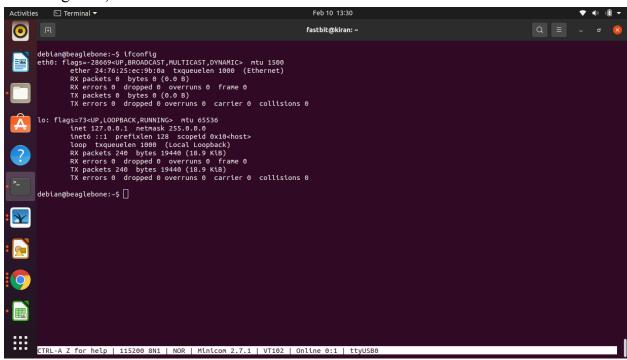


Figure 1. ifconfig

- 1. You are not able to see the usb0 interface. That's why you have to execute the commands below to see the usb0 interface, as shown in Figure 2.
 - □ sudo -s
 - □ modprobe g ether
 - ☐ ifconfig usb0 192.168.7.2 up
 - ☐ ifconfig

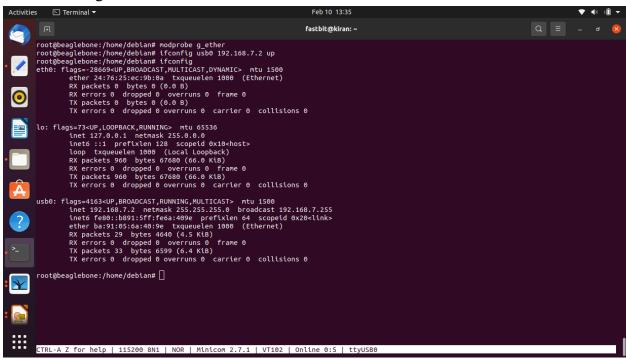


Figure 2. usb0 interface enumeration

3. Edit your vi /etc/resolv.conf as shown in Figure 3.

Text:

Add nameserver 8.8.8.8

Add nameserver 8.8.4.4

save and exit.

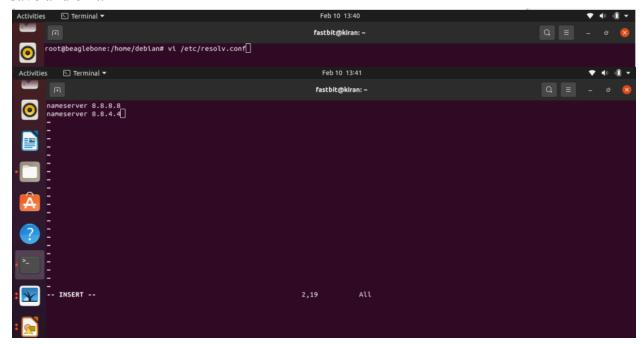


Figure 3. resolv.conf entry

4. Edit vi /etc/network/interfaces file and add as shown in the Figure 4, save and exit Text:

Ethernet/RNDIS gadget (g ether)

Used by: /opt/scripts/boot/autoconfigure usb0.sh

iface usb0 inet static

address 192.168.7.2

netmask 255.255.255.252

network 192.168.7.0

gateway 192.168.7.1

dns-nameservers 8.8.8.8

dns-nameservers 8.8.4.4

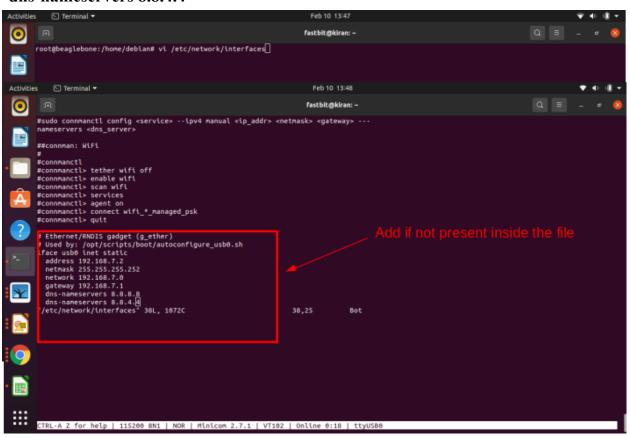


Figure 4. Adding contents inside /etc/network/interfaces

5. Add default gateway address by running the command as shown in Figure 5. route add default gw 192.168.7.1(Using PC as default gateway).

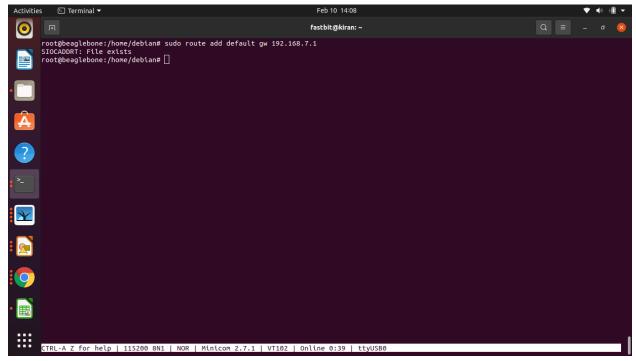


Figure 5. Adding the default gateway address

Host Settings

1. Run below commands.

sudo iptables --table nat --append POSTROUTING --out-interface wlan0 -j MASQUERADE

sudo iptables --append FORWARD --in-interface wlan0 -j ACCEPT sudo echo 1 > /proc/sys/net/ipv4/ip forward

If you reboot your machine, again you must run these commands So, it's better if you create a small script and execute when your machine reboots.

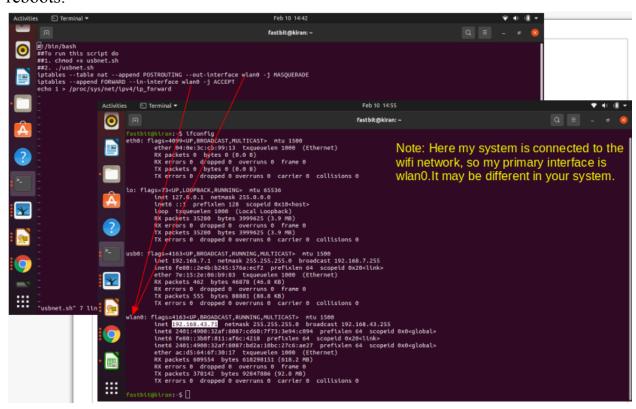


Figure 6. usbnet.sh

Download Script from this link:

https://drive.google.com/file/d/1dsdw2nxKUWLWSpIwpvMh_054odBXmq 40/view?usp=sharing

2. Give executable permission and run the script as shown in Figure 7.



Figure 7. Giving executable permission and running the script

3. Goto the target and ping www.google.com as shown in the Figure 8.

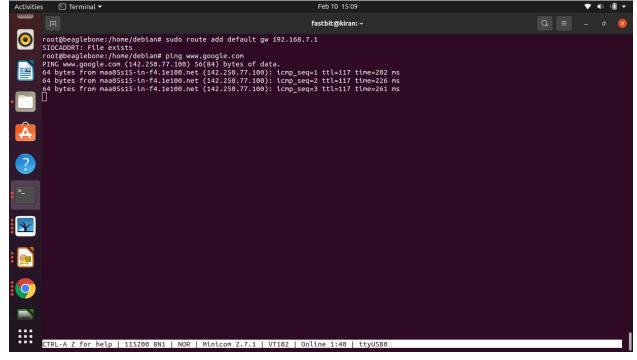


Figure 8. Ping to www.google.com