

Enabling internet over USB

Internet over USB

- Beaglebone board can communicate to the internet over the USB cable by sharing your PC's internet connection.
- You need not to use a separate ethernet cable to connect your board to internet.
- The required drivers are enabled by default in the kernel and loaded when Linux boots on the BBB
- But you must enable internet sharing on your HOST

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- Target settings :

1. Add name server address in : `/etc/resolv.conf`
2. Add name server address in : `/etc/network/interfaces`

```
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
```

1. Add default gateway address by running the below command
 - `route add default gw 192.168.7.1` (Using PC as default gateway)

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Host settings :

Run the below commands

```
sudo iptables --table nat --append POSTROUTING --out-interface wlp2s0 -j MASQUERADE
```

```
sudo iptables --append FORWARD --in-interface wlp2s0 -j ACCEPT
```

```
sudo echo 1 > /proc/sys/net/ipv4/ip_forward
```



Network interface name . You must use the name as listed by the command 'ifconfig'

If you reboot your machine, again you must run these commands.

So, its better if you create a small script and execute when your machine reboots.