# **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

### Internet over USB

- Target settings :
  - 1. Add name server address in : /etc/resolv.conf

```
nameserver 8.8.8.8 nameserver 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)

## Internet over USB

#### Host settings:

- Enable IP packet forwarding for IPv4 in this file: /etc/sysctl.conf
- Uncomment the line if commented: net.ipv4.ip\_forward=1
- 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
- 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.