


Steps to control NVIDIA Jetson board remotely

Step-1:

1. Open terminal on jetson board (assuming Ubuntu is booted to Desktop)
2. Get IP address of the board
 - Command: `$ifconfig`
 - Screenshot for reference:

3. Get IP address from the output of the above command
 - Screenshot for reference:

```
nurc@nurc-jetson:~$ ifconfig
```

```
wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.106.4.68 netmask 255.255.224.0 broadcast 10.106.31.255
    inet6 fe80::2da5:27f5:90fa:5b9b prefixlen 64 scopeid 0x20<link>
    ether 00:04:4b:c6:0b:d5 txqueuelen 1000 (Ethernet)
    RX packets 14387 bytes 2145675 (2.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 15210 bytes 1760586 (17.6 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

nurc@nurc-jetson:~$
```

Step-2:

1. Start x11vnc server on jetson board
 - Command: `$x11vnc -forever -shared`
 - Screenshot for reference:

[illegible]

2. Once server is started it must show PORT it is running on
➤ Screenshot for reference:

```
02/03/2023 07:15:00 The X server says there are 12 mouse buttons.
02/03/2023 07:15:00 screen setup finished.
02/03/2023 07:15:00
02/03/2023 07:15:00 WARNING: You are running x11vnc WITHOUT a password. See
02/03/2023 07:15:00 WARNING: the warning message printed above for more info.
02/03/2023 07:15:00

The VNC desktop is:      nurc-jetson:0
PORT=5900

*****
```

Step-3:

1. Download and install RealVNC on your remote machine (windows/mac/Linux)
2. Follow instructions on: <https://www.realvnc.com/en/connect/download/vnc/>

Step-4:

1. Run RealVNC on your remote machine
2. Use IP address from step-1 and port number from step-2
 - Screenshot for reference:

rvnc connect 10.106.4.68:5900

You should be able to control Ubuntu running on NVIDIA Jetson board using RVNC.

Note: Do not close x11vnc server running on terminal. Use another terminal for your work.