

### How to set up ROS WLAN Remote access:

1. Assign to local WLAN/LAN: Connect the Robot-Laptop with the Router, sign in to the Router WLAN:

-> SSID: ASUS\_F8  
-> PIN/WLAN-PW: 45891755

(Credentials to administrate the router can be found on the router housing backside. The new access password was changed from "admin" to "Admin" however.)

2. Start Terminal (CTRL + ALT + T)

3. Open .bashrc:

"\$ gedit .bashrc"

4. Start a second Terminal (CTRL + ALT + T)

5. Check your computer's IP Address:

"\$ ifconfig"

-> eno1 you LAN Cable based connection IP

-> wlo1 is your WIFI connection IP

6. To check that both PCs are within the same Network & being connected:

"ping nnn.nnn.nnn.nnn" [n = IP of the computer to connect to]

7. Adapt the .bashrc: add the following lines to the end:

"export ROS\_MASTER\_URI=http://192.168.50.242:11311" [That's the Robot's Laptop IP, where the roscore is launched]

"export ROS\_HOSTNAME=192.168.yyy.yyy [y: Replace with your computer's wlo1 IP for Wireless Connection]

8. Launch the roscore and nodes on the Robot PC

9. Try to publish/echo on topics via the remote PC by typing as like as you would do with the Robot's Laptop to verify it works.

done.

Link to the official webpage: <http://wiki.ros.org/ROS/NetworkSetup>