to connect to base station and ue: ssh root@[IP address here]

base station IP: 192.168.40.2

DHCP: 10.48.162.187

Sudo nmap -sP 10.42.0.0/24

Or

Sudo nmap -sP 10.42.0.252

ue IP: 10.42.0.0/24 (from base station terminal)

Nmap -

t (trace) - returns B210 connection info

ifconfig - returns network info

Ctrl+C (shown as ^C) - stops current command/process

[following commands are found on srsRAN github; We will be working on Phy layer and MAC layer]

Use in the following order in separate terminal windows:

1. srsenb - defines terminal window as base station
2. srsepc - defines terminal window as intermediary between base station and ue
3. srsue - defines terminal window as ue

After a few seconds of inactivity, the connection may time out. To reinstate the connection, enter srsenb, srsepc, or srsue in the disconnected terminal window.

Changing epc, enb, or ue config files

Go to srsran directory:

cd ~/.config/srsran/

Open config file in nano:

sudo nano [file name]

Code to set up srsRAN (from [Installation Guide — srsRAN 21.10 documentation](https://docs.srsran.com/en/latest/general/source/1_installation.html#gen-installation) )

sudo add-apt-repository ppa:softwareradiosystems/srsran

sudo apt-get update

sudo apt-get install srsran -y

sudo apt-get install build-essential cmake libfftw3-dev libmbedtls-dev libboost-program-options-dev libconfig++-dev libsctp-dev

(install RF front end driver — in our case, UHD)

git clone https://github.com/srsRAN/srsRAN.git

cd srsRAN

mkdir build

cd build

cmake ../

make

make test

sudo make install

srsran\_install\_configs.sh user

Additional setup

<https://docs.srsran.com/_/downloads/en/next/pdf/>

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LeftOffOn:<https://docs.srsran.com/en/latest/general/source/1_installation.html#gen-installation>

Do:Make Test