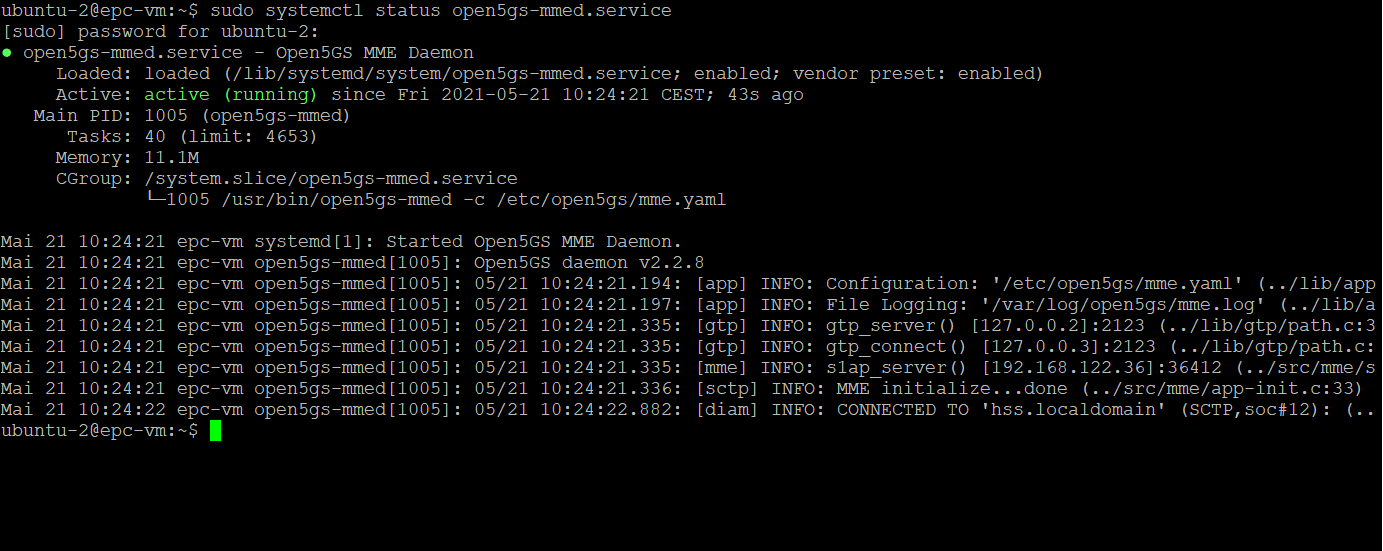
# Running & Testing the Network

*EPC ip: 192.168.122.36/24*

*eNodeB: 192.168.122.6/24*

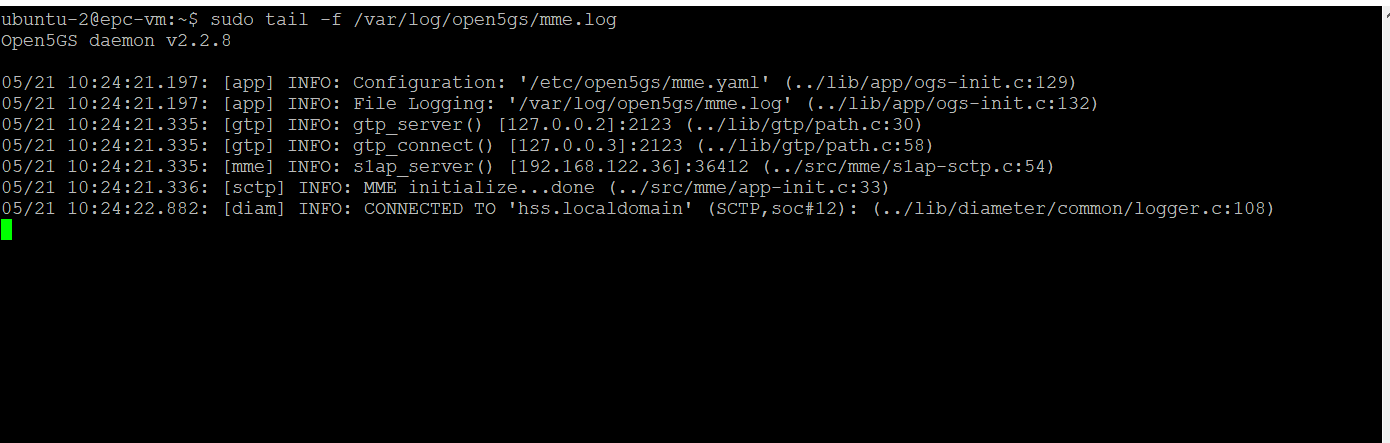
1. To check the status of MME service (from EPC):

sudo systemctl status open5gs-mmed.service



1. Watch the live MME log (from EPC)

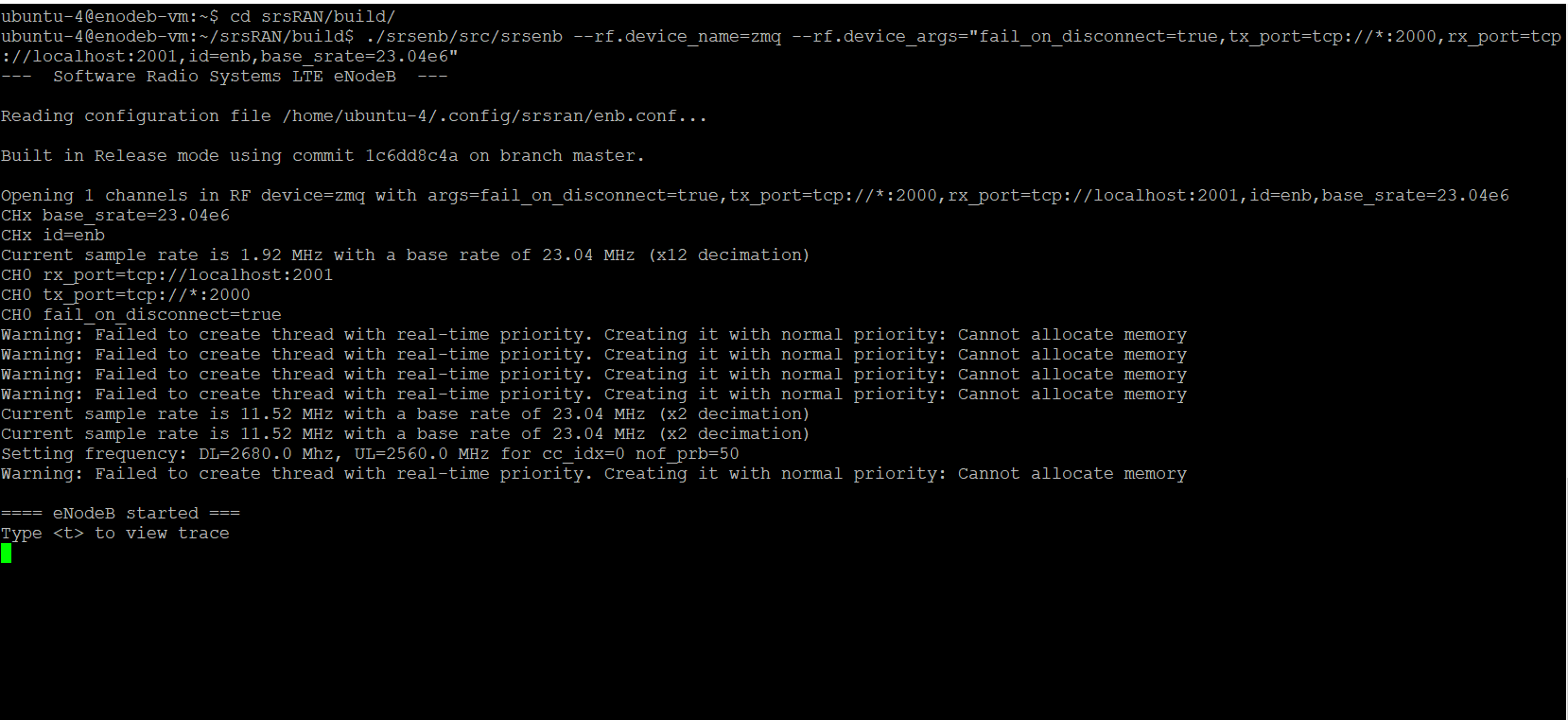
Sudo tail -f /var/log/open5gs/mme.log



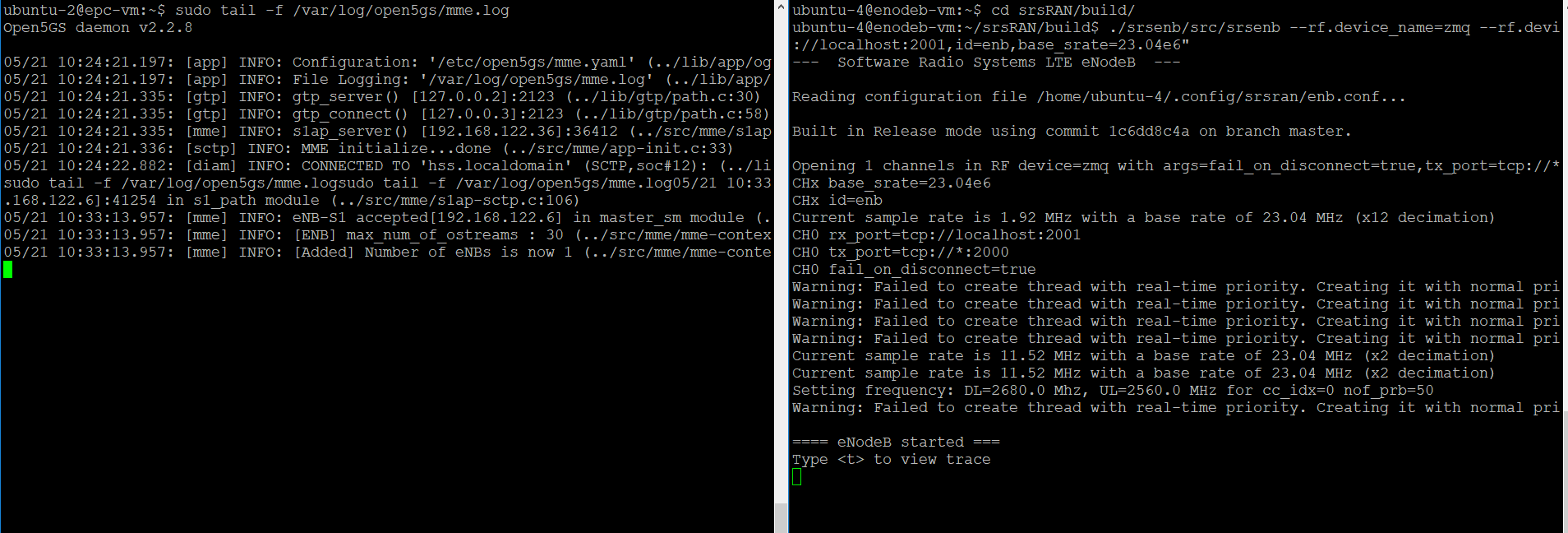
1. Running eNodeB:

cd srsRAN/build

./srsenb/src/srsenb --rf.device\_name=zmq --rf.device\_args="fail\_on\_disconnect=true,tx\_port=tcp://\*:2000,rx\_port=tcp://localhost:2001,id=enb,base\_srate=23.04e6"



From mme log file, it can be seen that eNB is now 1.



1. Running UE:

cd srsRAN/build

sudo ./srsue/src/srsue --rf.device\_name=zmq --rf.device\_args="tx\_port=tcp://\*:2001,rx\_port=tcp://localhost:2000,id=ue,base\_srate=23.04e6" --gw.netns=ue1

Text

Description automatically generated

All three function are running (MME , eNodB, UE)

Text

Description automatically generated

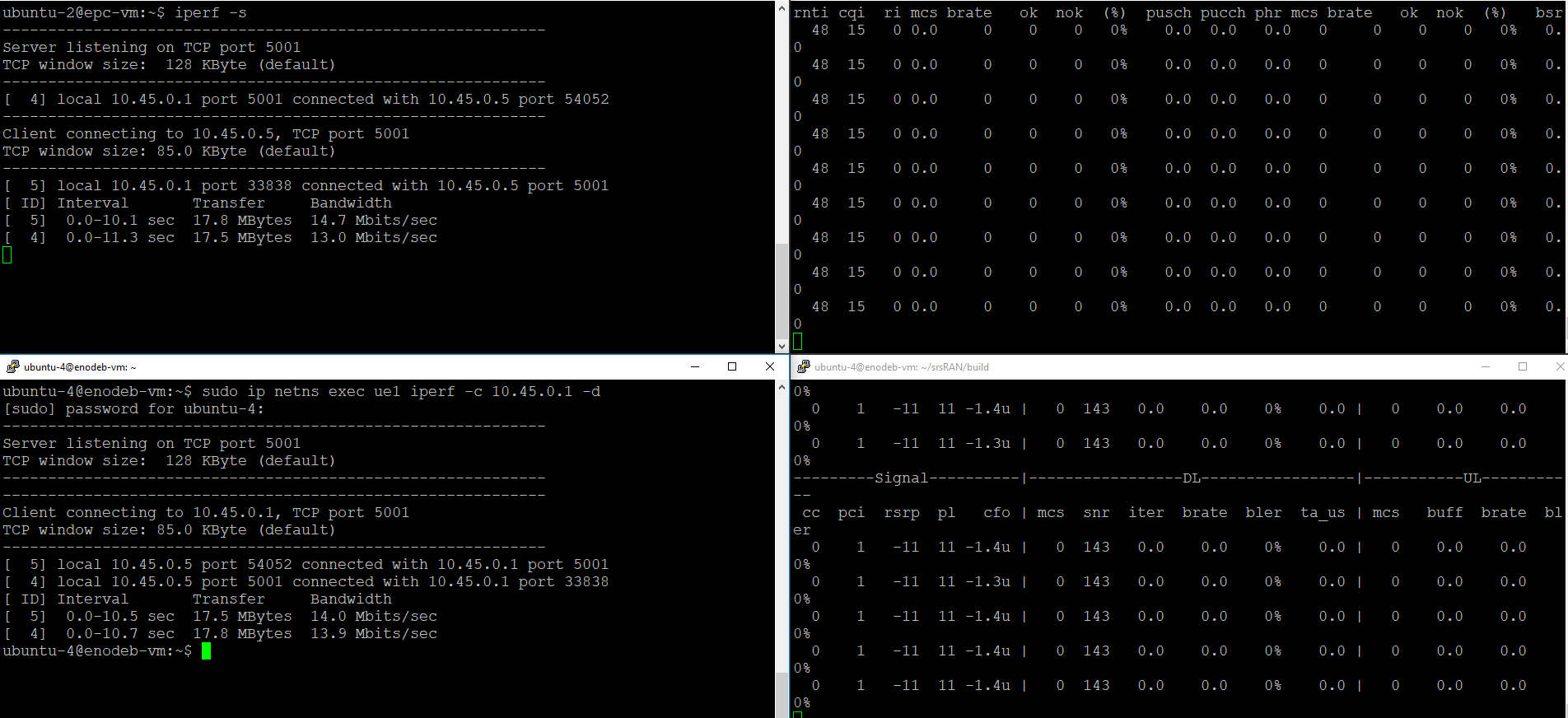
1. Ping and Iperf: To trace the traffic type t in eNodB and UE.

A picture containing text

Description automatically generated

\*\* To generate load via Iperf:

make iperf server in EPC and generate load from enodeB.



Make iperf server in endoB and generate traffic from EPC.

A picture containing text

Description automatically generated

Useful tips:

Restart mme: sudo systemctl restart open5gs-mmed

Check Ip tables, NAT rules.

Extra attention to ue.conf,enb.conf,epc.conf file.

Locate appropriate file, then make changes. Its better to have a backup file to compare changes between two file. (using diff command)