The following are the steps we followed to install Open5gs, setup MongoDB as database and setup UERANSIM.

Simulate and test a 5G core network environment using Open5GS, where all the core network functions (HSS, AMF, SMF, UPF) work together to provide end-to-end connectivity for User Equipment (UE).

Brief Summary of Steps we have done:

- 1. Installed MongoDB:
 - MongoDB was installed and set up as the database for Open5GS.
 - Verified MongoDB is running on localhost (default port 27017).
- 2. Installed Open5GS:
 - o All Open5GS components (HSS, AMF, SMF, UPF) were installed.
- 3. Configured smf.yaml:
 - Set up Session Management Function (SMF):
 - IP: 127.0.0.4
 - PFCP client points to UPF at 127.0.0.7.
 - Defined session subnets and DNS settings.
- 4. Configured amf.yaml:
 - Configured Access and Mobility Management Function (AMF):
 - IP: 127.0.0.5
 - MCC: 404 (India), MNC: 10.
 - NGAP server IP and GUAMI/TAI values set.
- 5. Configured upf.yaml:
 - Configured User Plane Function (UPF):
 - IP: 127.0.0.7.
 - PFCP linked to SMF at 127.0.0.4.
 - Session subnets and GTP-U settings added.
- 6. Configured hss.yaml:
 - Configured Home Subscriber Server (HSS):
 - MongoDB URI: mongodb://127.0.0.6:27017.
 - MCC: 404, MNC: 10.
- 7. Unified MCC/MNC Across All Files:
 - MCC (404) and MNC (10) set in all configuration files (amf.yaml, smf.yaml, upf.yaml, and hss.yaml).
- 8. Restarted Open5GS Services:
 - Restarted Open5GS services to apply configuration changes.

Installed MongoDB and libssl1.1 (Withour libssl1.1 MongoDB can't be installed)

Started MongoDB service:

```
ikagjashvika-virtual-nachter-/Documents/s/S sudo systemctl start nongod
ikagjashvika-virtual-nachter-/Documents//S sudo systemctl enable nongod
ed syntlink /etc/systemd/system/nulti-user-target-wants/nongod.service -/[lib/systemd/system/mongod.service
ikagjashvika-virtual-nachter-/Documents/S/S sudo systemctl status nongod
                   thvikagasahvika-vitual-nachine:/bocumants/gas/sudo/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/systemol/system
NOV 27 19:29:13 sathvika-virtual-machine systemd[1]: Started MongoOB Database Server.
NOV 27 19:29:13 sathvika-virtual-machine mongod[6659]: {"t":("Sdate":"2024-11-27713:59:13.4022"),"s":"I", "c":"CONTROL", "id":7484500, "ctx":"-","msg":"Environment variable MONGOOB_CONFIG_OVERRIDE_NOFO
```

Installed open5gs

```
vvkagsathvkka-virtual-machine:-/Documents/5g$ sudo add-apt-repository ppa:open5gs/latest
publishes dbgsym, you may need to include 'main/debug' component
sitory: 'deb https://ppa.launchpadcontent.net/open5gs/latest/bubntu/ jammy main'
PPA publishes 'dagsym, you may meed to include main/peeds completed complete
239 packages can be upgraded. Run 'apt list --upgradable' to see them.
sathvikagesthvika-virtual-mackinet-/bucuments/jg$ sudo apt install open5gs
backing package lists... Done
backing apekage lists... Done
Building dependency tree... 20%
Building dependency Done
Residency of the seed of the se
```

```
sathvika@sathvika-virtual-machine:~/Documents/5g$ which open5gs-mmed
/usr/bin/open5gs-mmed
sathvika@sathvika-virtual-machine:~/Documents/5g$
```

Insert Default Subscriber Data into MongoDB

```
sathvikagsathvika-virtual-machine:-/Documents/50$ mongo --eval "db = connect('localhost/open5gs'); db.subscribers.drop(); db.subscribers.insert(( inst: '001010000000001', key: '8x80280/0524528395458856185CA'; anf: '80000', sqn: '0000000000000', pdn: [{ apn: 'internet' }] ));"
Mongodo shell version vs. 6.
Connecting to: mongodo'://127.0.0.1:27011/2compressors=disabledgssapiServiceName=mongodo
Implicit session: session ( 'dd': UUID('0eba0784-1060-48c3-8050-400f0474b7c') )
Mongodo server version: session ( 'dd': UUID('0eba0784-1060-48c3-8050-400f0474b7c') )
Mongodo server version: session ( 'dd': UUID('4eba0784-1060-48c3-8050-400f0474b7c') )
Mongodo server version ( 'dd': UUID('4eba0784-1060-48c3-8050-400f047
```

Verify Subscriber Data

```
acthvtkageacthvtka-vtrtual-nachinet-/Bocuments/5/5 mongo
longo@b shell version v5.0.30
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=
implicit session: session { "id" : UUID("56f018f4-1c67-428f-8ac8-59ef6f2a3eba") }
longo@b server version: 5.0.30
 Amarning: the "mongo" shell has been superseded by "mongosh", which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in an upconting release.
For installation instructions, see https://docs.mongodb.com/mongodb.seehtl/install/
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
https://docs.mongodb.com/
Questions? Try the MongoDB Developer Community Forums
https://community.mongodb.com
   --
he server generated these startup warnings when booting:
2024-11-27719:29:13.504-495:30: Usering the XF5 filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
2024-11-27719:29:13.602-405:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

    use open5gs
    witched to db open5gs
    db.subscribers.find().pretty()

                 "apn" : "internet"
```

Configure Network Functions

```
bye
sathvikagsathvika-virtual-machine:-/Documents/5g$ cd /etc/open5gs
sathvikagsathvika-virtual-machine:/etc/open5g$ sudo nano anf.yami
sathvikagsathvika-virtual-machine:/etc/open5g$ sudo systemctl restart open5gs-anf
Failed to restart open5gs-anf.service: Unit open5gs-anf.service not found.
sathvikagsathvika-virtual-machine:/etc/open5g$ sudo systemctl list-units --type=service | grep open5gs
open5gs-anfd.service | loaded active running Open5GS AUSF Daemon
open5gs-n5d.service | loaded active running Open5GS AUSF Daemon
open5gs-n5d.service | loaded active running Open5GS HSD Daemon
open5gs-n5d.service | loaded active running Open5GS HSD Daemon
open5gs-n5d.service | loaded active running Open5GS HSD Daemon
open5gs-n5d.service | loaded active running Open5GS NSF Daemon
loaded active running Open5GS NSF Daemon
loaded active running Open5GS NSF Daemon
loaded active running Open5GS SCP Daemo
         wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: NF EndPoint(addr) setup [127.0.0.10:7777] (.../lb/sbi/nnrf-handler.c:949)
wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: [13d2e526-acca-41ef-8924-615f5756b66d] Subscription created until 2024-11-2819:45:38.77
wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: NF EndPoint(addr) setup [127.0.0.10:7777] (.../lb/sbi/nnrf-handler.c:949)
wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: NF EndPoint(addr) setup [127.0.0.10:7777] (.../lb/sbi/nnrf-handler.c:949)
wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: NF EndPoint(addr) setup [127.0.0.10:7777] (.../lb/sbi/nnrf-handler.c:949)
wov 27 19:45:38 sathvika-virtual-machine open5gs-amfd[9754]: 11/27 19:45:38.775: [sbl] INFO: NF EndPoint(addr) setup [127.0.0.10:7777] (.../lb/sbi/nnrf-handler.c:949)
```

Verify Other Open5GS Services

If any service is failed to start then restart using sudo systemctl restart open5gs*

```
Sgs$ sudo systemctl restart open5gs-amfd.servic
Sgs$ sudo systemctl status open5gs-amfd.service
           thvklagsathvka-vtrual-aachine;/atc/open5gs sudo systemctl restart open5gs-anfd.service chwklagsathvka-vtrual-aachine;/atc/open5gs sudo systemctl status open5gs-anfd.service open5gs-anfd.service open5gs-anfd.service; open
                 27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
27 19-45:38 sathvika-virtual-machine openSps-andfg9754; 11/27 19-45:38.775: [sbi] INFO: IN EndPoint(addr) setup [127.0.0.10:7777] (.../lbb/sbl/nnrf-shandler.c:949)
                      open5gs-upfd.service - Open5GS UPF Daemon
Loaded: loaded (/lib/systemd/system/open5gs-upfd.service; enabled; vendor preset: enabled)
Active: active (running) since Med 2024-11-27 19:30:50 IST; 15min ago
Main PID: 8470 (open5gs-upfd)
Tasks: 2 (limit: 4551)
Memory: 20.1M
CPU: 86ms
CGroup: /system.slice/open5gs-upfd.service
__8470 /usr/bin/open5gs-upfd -c /etc/open5gs/upf.yaml
    Nov 27 19:30:50 sathvika-virtual-machine systemd[1]: Started OpenSCS UPF Daemon.
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: OpenSCS daemon v2.7.2
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: OpenSCS daemon v2.7.2
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.914: [app] INFO: Configuration: '/etc/openSgs/upf.yaml' (../lib/app/ops-intt.c:133)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.951: [app] INFO: File Logging: '/var/log/openSgs/upf.log' (../lib/app/ops-intt.c:136)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.951: [app] INFO: Pfcp server() [127.0.0.7]:98096 (../lib/pfcp/path.c:30)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.951: [pfcp] INFO: pfcp server() [127.0.0.7]:2152 (./lib/pfcp/path.c:30)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.951: [pfcp] INFO: openServer() [127.0.0.7]:2152 (./lib/pfcp/path.c:30)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:50.951: [pfcp] INFO: openServer() [127.0.0.7]:2152 (./lib/pfcp/path.c:30)
Nov 27 19:30:50 sathvika-virtual-machine openSgs-upfd[8470]: 11/27 19:30:53.757: [pfcp] INFO: openServer() [127.0.0.4]:8805 (../src/upf/ppc-sm.c:184)
  openSgs-udrd.service - OpenSGS UDR Daemon
Loaded: loaded (/lib/systend/systen/openSgs-udrd.service; enabled; vendor preset: enabled)
Active: active (running) since Med 2024-11-27 19:30:51 IST; 15min ago
Main PID: 8565 (openSgs-udrd)
Tasks: 2 (limit: 4551)
lines 1-47
              openSgs-upfd.service - OpenSGS UPF Daemon
Loaded: loaded (/lib/systend/systen/openSgs-upfd.service; enabled; vendor preset: enabled)
Active: active (running) since Med 2024-11-27 20:31:29 IST; 13s ago
Main PlD: 10216 (openSgs-upfd)
Tasks: 2 (linit: 45S1)
Memory: 25.7M
CPU: 66ms
CGroup: //system.slice/openSgs-upfd.service
__10216 /usr/bin/openSgs-upfd -c /etc/openSgs/upf.yaml
                 openSgs-udrd.service - OpenSGS UDR Daemon
Loaded: loaded (/lib/systemd/system/openSgs-udrd.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2024-11-27 20:31:29 IST; 13s ago
Main PID: 10214 (openSgs-udrd)
Tasks: 2 (limit: 4551)
```

Verify Subscriber data in MongoDB

Ensure your HSS is properly connected to the MongoDB database and has subscriber data.

1. Access the MongoDB shell:



Install UERANSIM:

```
ent bye
startwingsthvika-virtual-mackine; atc/apmogs; sudo apt update
Get:1 http://security.ubuntu.com/ubuntu jamy-security inRelease [129 kB]
Hitti: https://security.ubuntu.com/ubuntu jamy-security/inRelease [129 kB]
Hitti: https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/s.0 inRelease
Hitti: https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/s.0 inRelease
Hitti: https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/s.0 inRelease
Hitti: https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/s.0 inRelease
Hitti: https://repo.mongodb.org/apt/ubuntu jamy-security/main and6d Peckages [1,50 kB]
Get:0 http://n.archive.ubuntu.com/ubuntu jamy-security/main and6d Peckages [1,50 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu jamy-security/main labo Packages [1,50 kB]
Get:1 http://security.ubuntu.com/ubuntu jamy-security/main labo Packages [57 kB]
Get:1 http://security.ubuntu.com/ubuntu jamy-security/main labo Packages [57 kB]
Get:1 http://security.ubuntu.com/ubuntu jamy-security/main.mandGG Per-1 inRedatad [23 kB]
Get:1 http://security.ubuntu.com/ubuntu jamy-security/main.mandGG Per-1 inRedatad [24 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu jamy-security/main.mandGG Per-1 inRedatad [25 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu jamy-security/main.mandGG Per-1 inRedatad [26 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu jamy-security/main.mandGG Per-1 inRedatad [27 kB]
Get:2 http://in.archive
```

Install SCTP Library

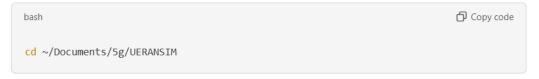
```
| Same |
```

Clean and Rebuild UERANSIM

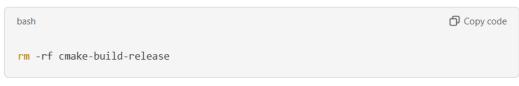
```
Setting up libsctp-deviandss (1.0.19+dfsg-ibuildi) ...
Processing triggers for named (2.10.2-1) ...
Processing triggers for named (2.10.2-1) ...
Setting up to the complete of the complete of pure processing triggers for named (2.10.2-1) ...
Setting up to the complete of the complete of pure processing triggers and the complete of th
```

Step 1: Manually Clean the Build Directory

1. Navigate to the UERANSIM directory:

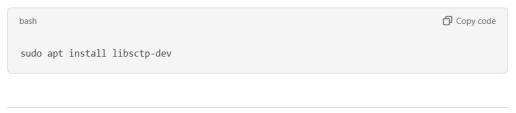


2. Remove the existing build directory:



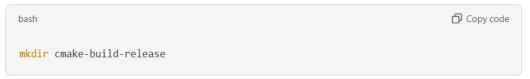
Step 2: Install SCTP Development Library

Ensure the SCTP library is installed (if you haven't already):

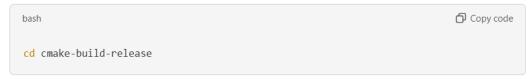


Step 3: Rebuild UERANSIM

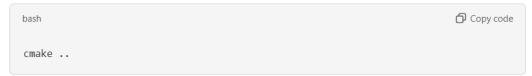
1. Create a new build directory:



2. Navigate to the new build directory:



3. Run cmake to configure the build:



4. Run make to build the project:



Step 4: Verify the Build

After the build is complete, check for the nr-ue and nr-gnb executables in the build/ directory:

```
bash

Copy code

1s -1
```

You should see:

```
text

nr-ue
nr-gnb
```

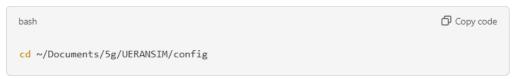
```
### Section package lists...Done
### Bedding package lists...Done
### Bedding package lists...Done
### Bedding package lists...Done
### Bedding packages will be installed:
| libsctp-dev
### Bedding NEW packages will be installed:
| libsctp-dev
### Burgarded, 1 menly installed, 0 to remove and 239 not upgraded.
| Reed to get 5.1 kB of archive.upditional disk space will be used.
| Get: | http://ln.archive.ubuntu.com/jobuntu_jammy/main_and64 libsctp-dev_and64. |
| Get: | http://ln.archive.ubuntu.com/jobuntu_jammy/main_and64. |
| Get: | http://ln.archive.ubuntu.com/jobuntu_jammy/main_and64. |
| Get: | http://ln.archive.ubuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.com/jobuntu.
```

Next Step: Configure UE and gNodeB

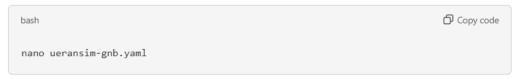
Now, you need to configure the UE and gNodeB (RAN) to interact with your Open5GS setup.

Step 1: Create the gNodeB Configuration

1. Navigate to the config directory inside the UERANSIM folder:



2. Create a new configuration file for the gNodeB:



- 1. Open a new terminal window.
- 2. Navigate to the cmake-build-release directory:



3. Start the gNodeB:

```
bash

./nr-gnb -c ../config/ueransim-gnb.yaml
```

Start UE:

- 1. Open another terminal window.
- 2. Navigate to the cmake-build-release directory:



3. Start the UE:

```
bash

./nr-ue -c ../config/ueransim-ue.yaml
```

Expected Results

- 1. gNodeB Logs:
 - Should show successful NGAP connection with the AMF.
 - Example:

2. UE Logs:

- · Should show successful registration with the AMF and session establishment.
- · Example:

```
sathvika@sathvika-virtual-machine:~/Documents/5g$ sudo systemctl restart open5gs*
sathvika@sathvika-virtual-machine:~/Documents/5g$ nano ~/Documents/5g/UERANSIM/config/ueransim-ue.yaml
sathvika@sathvika-virtual-machine:~/Documents/5g$ sudo nano /etc/open5gs/amf.yaml
sathvika@sathvika-virtual-machine:~/Documents/5g$ sudo systemctl restart open5gs*
sathvika@sathvika-virtual-machine:~/Documents/5g$ ./nr-gnb -c ../config/ueransim-gnb.yaml
bash: ./nr-gnb: No such file or directory
sathvika@sathvika-virtual-machine:~/Documents/5g$ cd ~/Documents/5g/UERANSIM/cmake-build-release
sathvika@sathvika-virtual-machine:~/Documents/5g*/UERANSIM/cmake-build-release$ ./nr-gnb -c ../config/ueransim-gnb.yaml
UERANSIM v3.2.6
[2024-11-30 10:02:49.336] [sctp] [info] Trying to establish SCTP connection... (127.0.0.5:38412)
[2024-11-30 10:02:49.345] [sctp] [info] SCTP connection established (127.0.0.5:38412)
[2024-11-30 10:02:49.345] [sctp] [debug] SCTP association setup ascId[22]
[2024-11-30 10:02:49.345] [ngap] [debug] Scd Request
[2024-11-30 10:02:49.350] [ngap] [debug] NG Setup Response received
[2024-11-30 10:02:49.350] [ngap] [info] NG Setup procedure is successful
```

Logs:

```
| Company | Comp
```