

1.

3G Core \rightarrow amf.cfg.yaml

- Mobile Country Code (MCC)
(3 digits)
- Mobile Network Code (MNC)
(2-3 digits)
- Tracking area code (TAC)
(1 digit)
- Data network name (DN)
- User plane information
gnB1 \rightarrow name of the node.

SG UEs:

- SupI \rightarrow number of UE
(UE11, UE12, UE21)
(imsi - 0... 11 / 12 / 21)
(name of terminal)

2. SGC Start Order: (components)

- 1 - MongoDB
- 2 - NRF
- 3 - UDR
- 4 - UDM
- 5 - AUSF
- 6 - NSSF
- 7 - AMF
- 8 - PCF
- 9 - SMF
- 10 \rightarrow Web UI

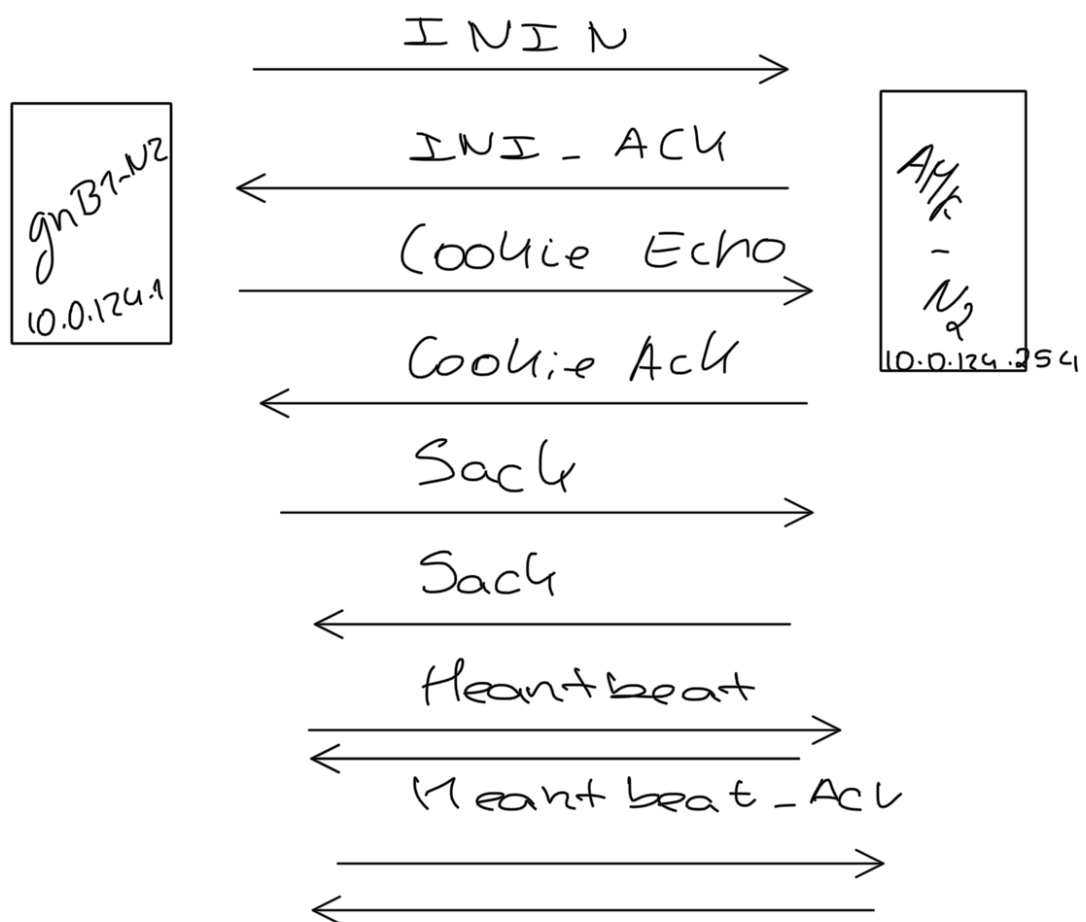
Protocols involved \rightarrow ICMP, ARP,
TCP, HTTP2

PDNS, PFCTP

PFCTP \Rightarrow SMF \rightarrow UPF
(Request and response para se ligarem).

3. gNBs start

SCTP protocol:



NGAP Protocol

✓ NGAP Setup Request :: Global RANodeId:
global GND-ID
gNB1 \rightarrow AMF
RANode Name;

- Supported TA List:
TAC + MCC (1)
(1) + mnc (01)
Slice 1 & 2.
- Default Paging DRX

NGAP Setup Response :

- AMF Name : AMF
- Served Gumi List
- TAC + MCC + mnc
- Slice 1 & 2

4. UE creation

Protocol

(AMF - SMF)

HTTP 2 / NGAP / NAS - SGS

↳ PDU session establishment

Protocol

(SMF - UPF)

PF CP

↳ Session establishment
request / response

Session modification

request / response (update

(create
PDR, FAR
QER)

Protocol

HTTP 2

(AMF - AUSF)

- Data, headers, settings

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window update, gateway

5. Connectivity

GTP < ICMP > - Tunnel endpoint identifier
(TEID = 1)

6. QoS

Upload - 10 mb/s

download - 20 mb/s