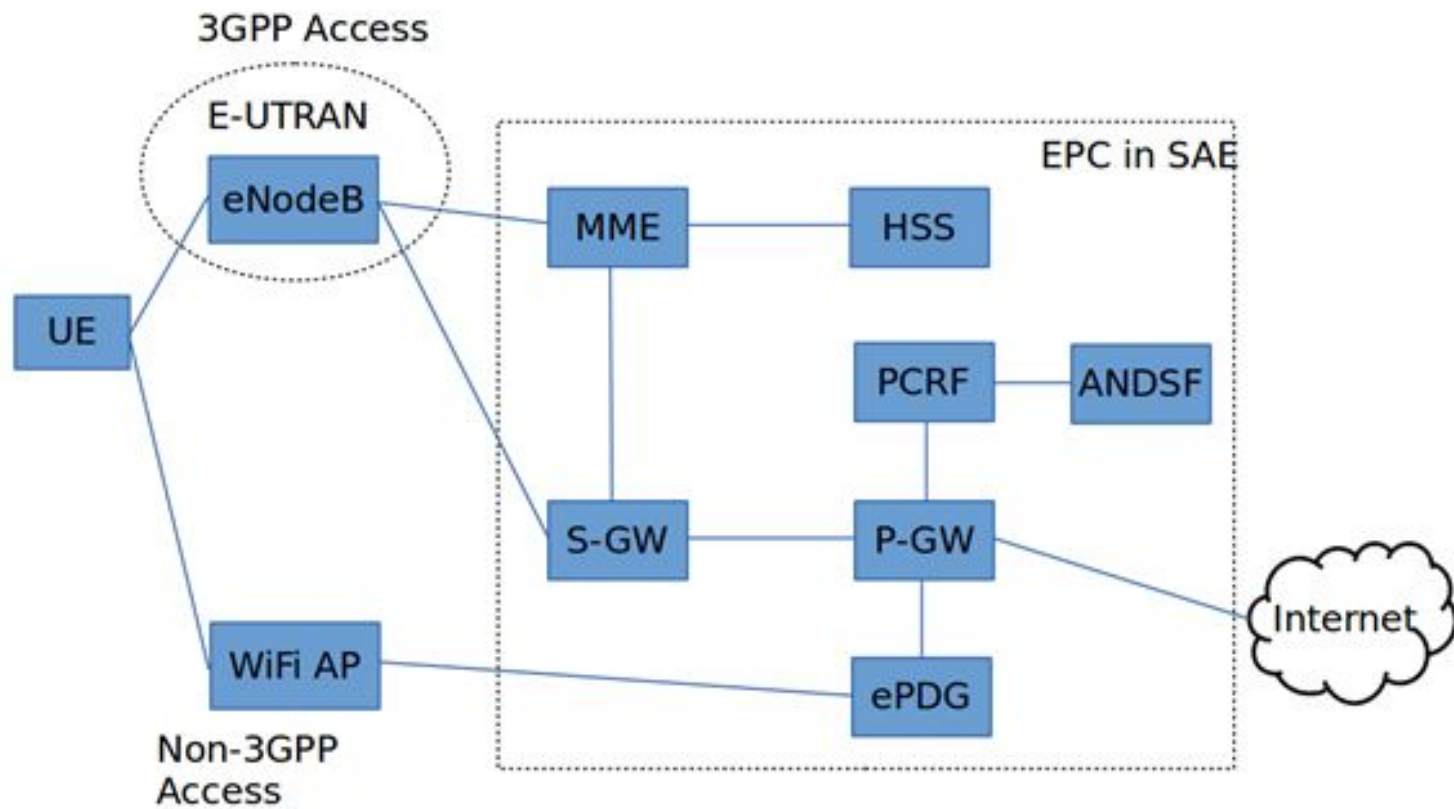


OAI lab work

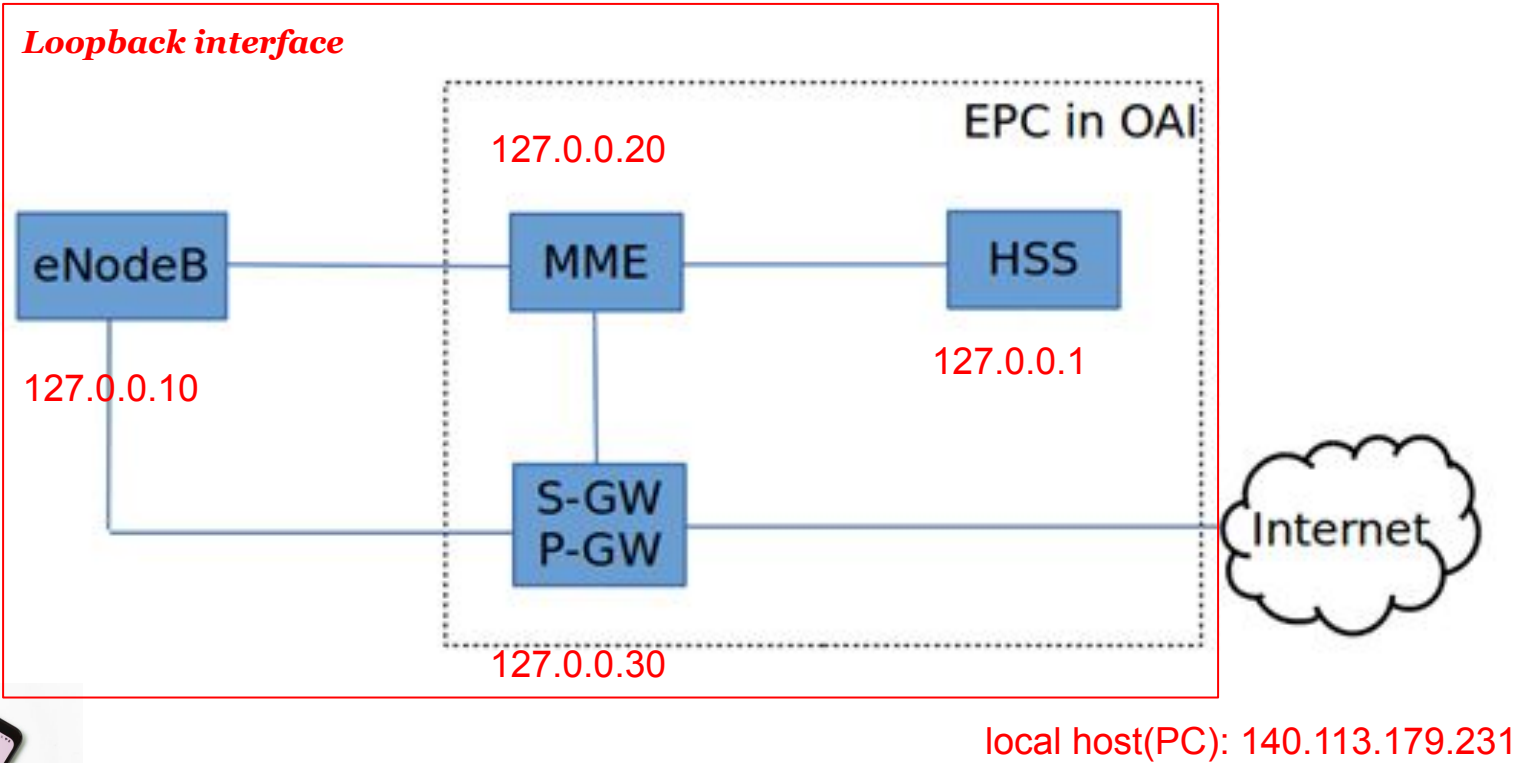




4G (LTE) Wireless Network architecture is comprised of the following three main components:

- UE (User Equipment) / Mobile
- E-UTRAN (e-NodeB)
- EPC (Evolved Packet Core)

Loopback interface



192.168.0.2

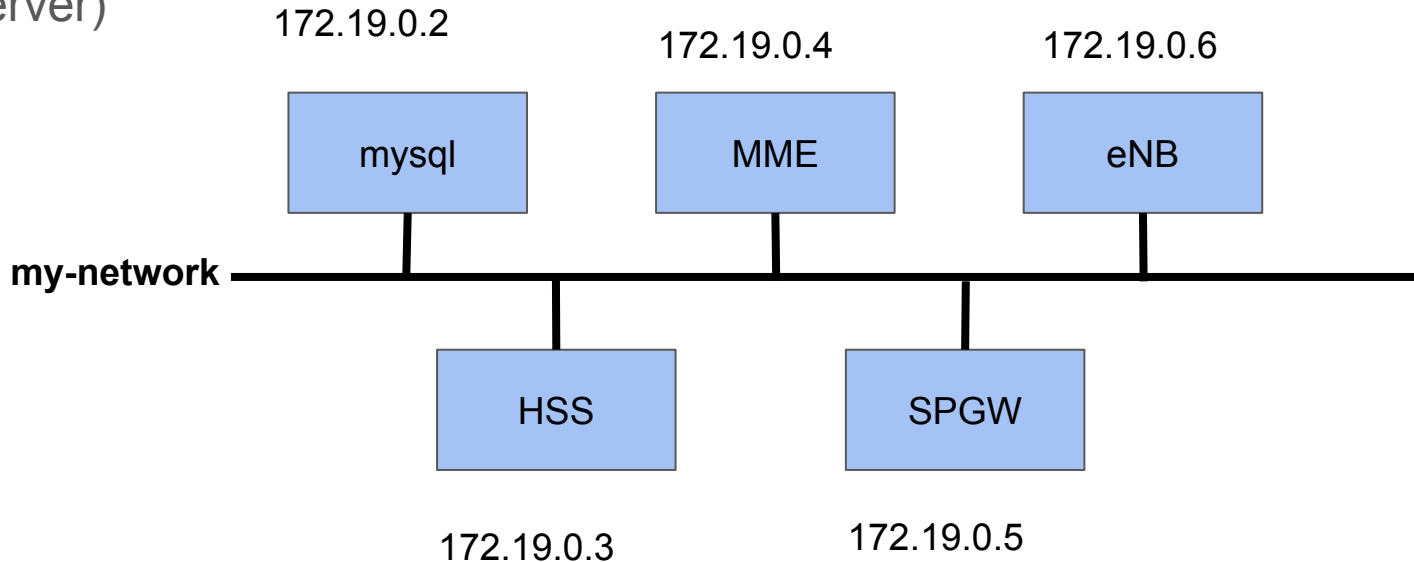
Stage of work

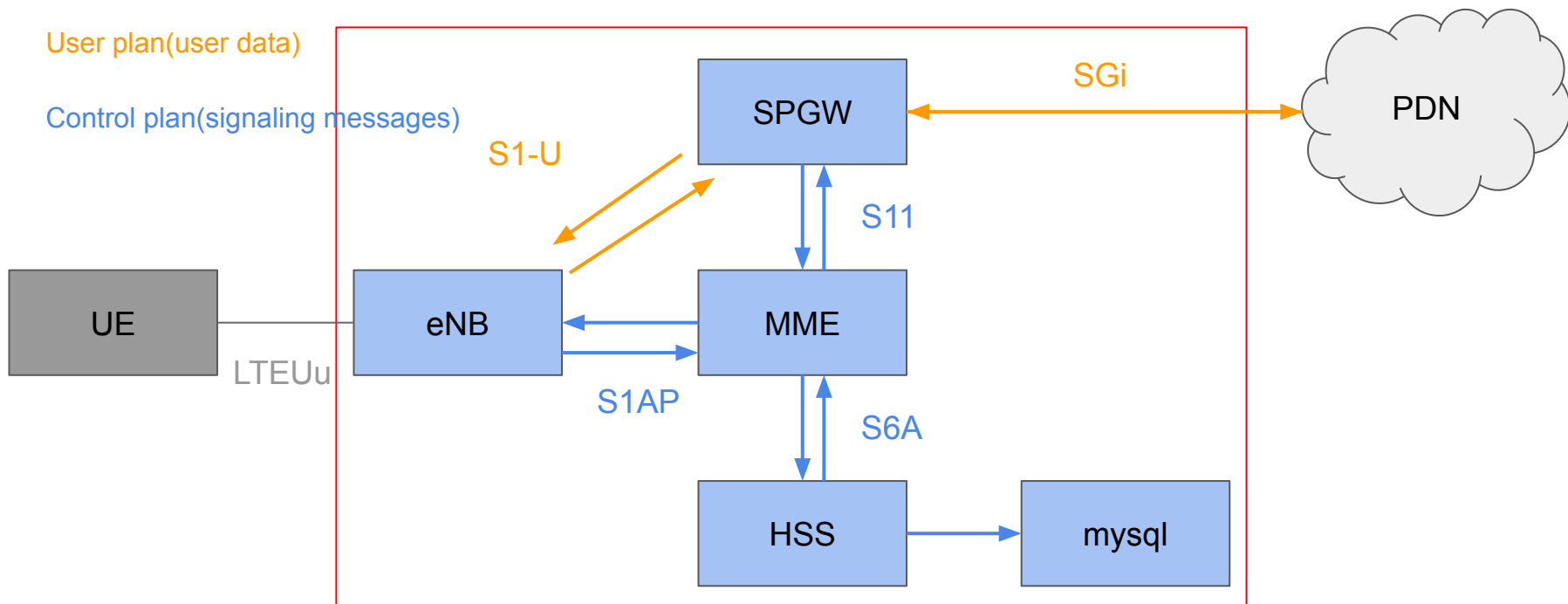
1. All in one at localhost(PC)...done!
2. Four component in different docker...done!

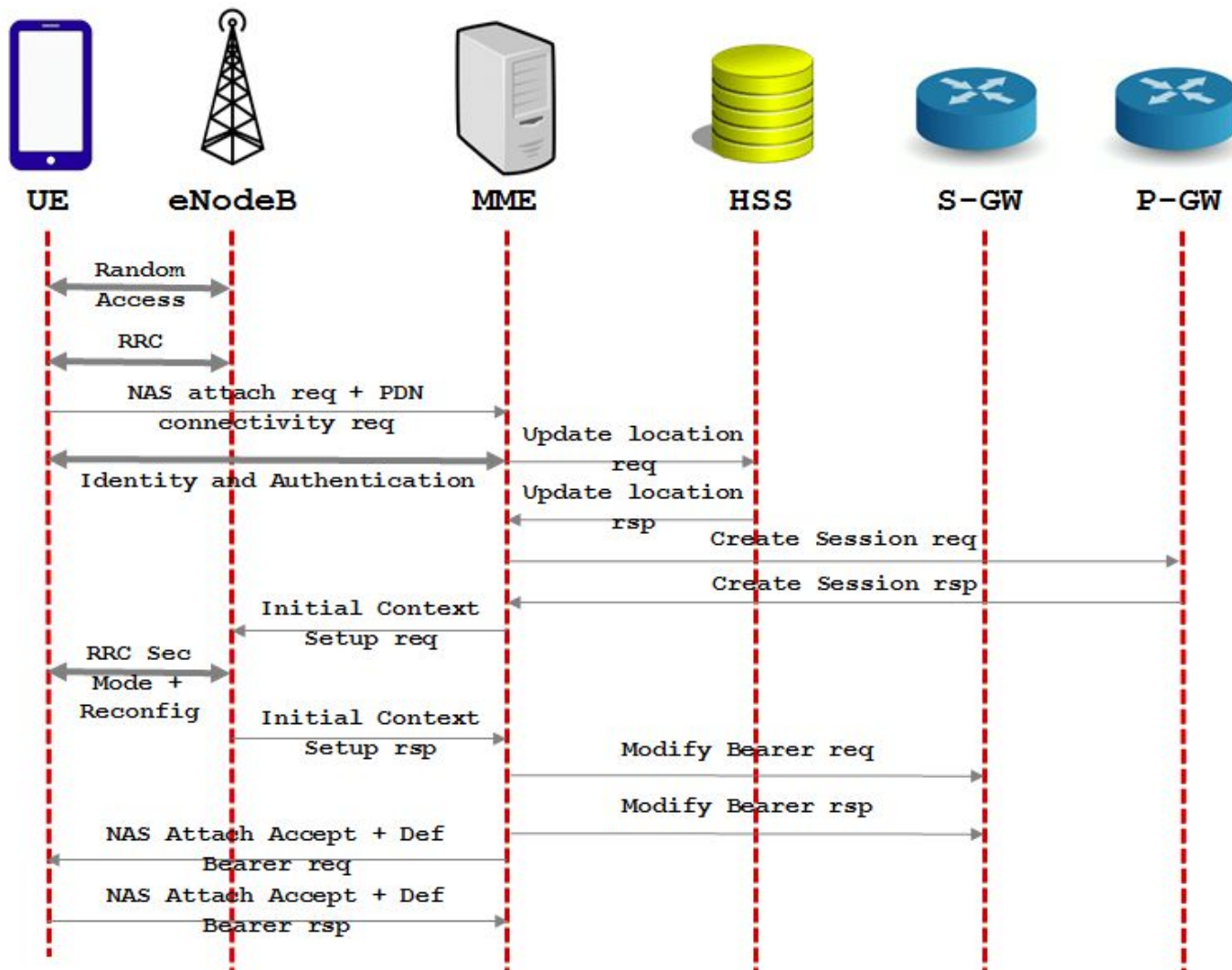
OAI with Docker Container v2

Docker bridge (my-network)

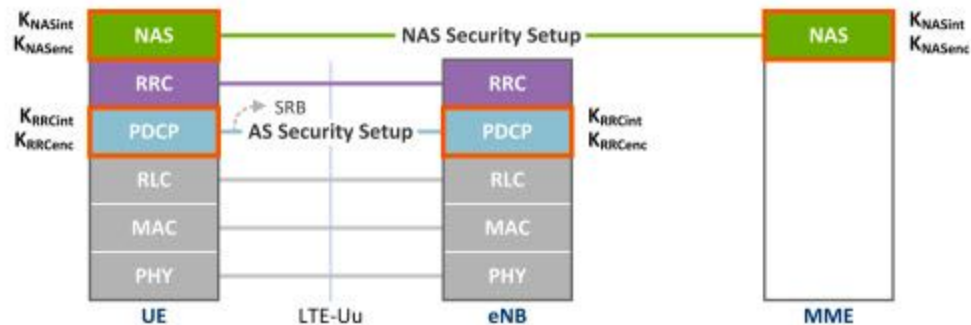
1. db(mysql-server)
2. oai_hss
3. oai_mme
4. oai_spgw
5. oai_enb



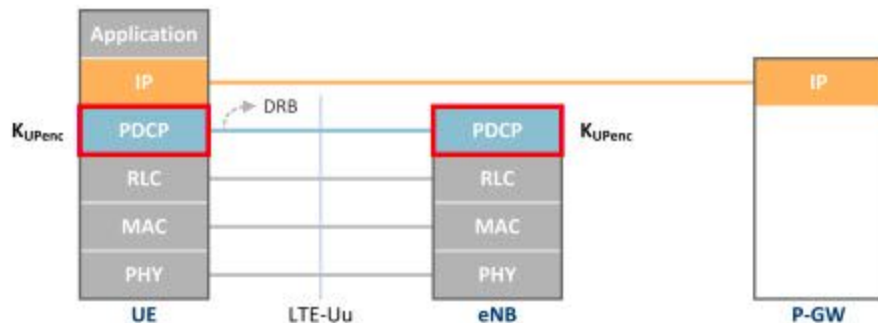




Control Plane



User Plane



NAS Security Setup
for signaling (NAS signaling)

AS Security Setup
for signaling (RRC signaling)
and user IP packet

Perform ciphering/deciphering
(encryption/decryption) and
integrity protection/verification

Perform ciphering/deciphering
(encryption/decryption)