OAI - Core Network

1. Set Up

For our test the version 1.5.0 was used.

1.1 Core-host Configurations

```
sudo sysctl net.ipv4.conf.all.forwarding=1
sudo iptables -P FORWARD ACCEPT
```

1.2 Clone oai-cn5g-fed

```
git clone https://gitlab.eurecom.fr/oai/cn5g/oai-cn5g-fed.git
git checkout v1.5.0
```

1.3 Changing Core Settings

```
git clone https://github.com/eduardoschulz/Interoperabilidade.git
cd Interoperabilidade/core-networks/OAI-CN/


mv docker-compose-basic-nrf.yaml ~/oai-cn5g-fed/docker-compose/
```

1.4 gNB-host Configurations

You also must configure a route to the internal docker network so that the gNB can make a connection.

```
sudo ip route add 192.168.70.128/26 via {ip_addr_corehost} dev {interface}

#example
sudo ip route add 192.168.70.128/26 via 191.4.205.38 dev br01
```

2.0 Deploying the Core Network

- To start the core

```
cd path-to/oai-cn5g-fed/docker-compose
python3 core-networks.py --type start-basic --scenario 1
```