

oai-cn5g-fed

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doc(docker): explained how to build on a different Ubuntu base image and...

bd79da7c

Raphael Defosseux authored 1 month ago

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Open in Web IDE



OpenAirInterface 5G Core Network Deployment : Pulling Container Images

This page is only valid for an **Ubuntu** host.

If you are using any other distributions, please refer to [Build your own images](#).

If you want to use a specific branch or commit, please refer to [Build your own images](#).

Pulling the images from Docker Hub

The images are hosted under the oai account `oisoftwarealliance`.

All images that are currently pushed to Docker-Hub have an `Ubuntu-18.04` base image.

But they should be working on any Ubuntu newer hosts (such as `20.04` or `22.04`).

Once again you may need to log on [docker-hub](#) if your organization has reached pulling limit as `anonymous`.

```
$ docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username:
Password:
```

The OAI CI/CD team has automated more frequent pushes to Docker-Hub on `oisoftwarealliance` account. Two important things to be noted:

- We will keep pushing to the `latest` tag when a milestone is reached current `latest` tag correspond to v1.4.0 release.
- We are making pushes on the `develop` tag whenever a contribution has been accepted. These images are **EXPERIMENTAL**.
- Release tag `vx.x.x` contains the release code

Now pull images according to your requirement,

```
#!/bin/bash
docker pull oisoftwarealliance/oai-amf:v1.4.0
docker pull oisoftwarealliance/oai-nrf:v1.4.0
docker pull oisoftwarealliance/oai-spgwu-tiny:v1.4.0
docker pull oisoftwarealliance/oai-smf:v1.4.0
docker pull oisoftwarealliance/oai-udr:v1.4.0
docker pull oisoftwarealliance/oai-udm:v1.4.0
docker pull oisoftwarealliance/oai-ausf:v1.4.0
docker pull oisoftwarealliance/oai-upf-vpp:v1.4.0
docker pull oisoftwarealliance/oai-nssf:v1.4.0
# Utility image to generate traffic
docker pull oisoftwarealliance/trf-gen-cn5g:latest
```

And **re-tag** them for tutorials' docker-compose file to work.

```
#!/bin/bash
docker image tag oisoftwarealliance/oai-amf:v1.4.0 oai-amf:v1.4.0
docker image tag oisoftwarealliance/oai-nrf:v1.4.0 oai-nrf:v1.4.0
docker image tag oisoftwarealliance/oai-smf:v1.4.0 oai-smf:v1.4.0
docker image tag oisoftwarealliance/oai-spgwu-tiny:v1.4.0 oai-spgwu-tiny:v1.4.0
docker image tag oisoftwarealliance/oai-udr:v1.4.0 oai-udr:v1.4.0
docker image tag oisoftwarealliance/oai-udm:v1.4.0 oai-udm:v1.4.0
docker image tag oisoftwarealliance/oai-ausf:v1.4.0 oai-ausf:v1.4.0
docker image tag oisoftwarealliance/oai-upf-vpp:v1.4.0 oai-upf-vpp:v1.4.0
docker image tag oisoftwarealliance/oai-nssf:v1.4.0 oai-nssf:v1.4.0
docker image tag oisoftwarealliance/trf-gen-cn5g:latest trf-gen-cn5g:latest
```

Finally you may logoff --> your token is stored in plain text..

```
$ docker logout
```

We will push new versions when new features are validated.

Synchronizing the tutorials

CAUTION: PLEASE READ THIS SECTION VERY CAREFULLY!

This repository only has tutorials and Continuous Integration scripts.

At the time of writing (2022/07), the release tag is `v1.4.0`.

COMPONENT	RELEASE	TYPE	URL	DESCRIPTION
oai-amf	v1.4.0	AMF	https://github.com/oai-5g/amf	AMF (Access and Mobility Management Function)
oai-nrf	v1.4.0	NRF	https://github.com/oai-5g/nrf	NRF (Network Repository Function)
oai-smf	v1.4.0	SMF	https://github.com/oai-5g/smf	SMF (Session Management Function)
oai-udr	v1.4.0	UDR	https://github.com/oai-5g/udr	UDR (Unified Data Repository)
oai-udm	v1.4.0	UDM	https://github.com/oai-5g/udm	UDM (Unified Data Management)
oai-ausf	v1.4.0	AUSF	https://github.com/oai-5g/ausf	AUSF (Authentication Server Function)
oai-upf-vpp	v1.4.0	UPF	https://github.com/oai-5g/upf-vpp	UPF (User Plane Function) with VPP
oai-nssf	v1.4.0	NSSF	https://github.com/oai-5g/nssf	NSSF (Network Slice Selection Function)
trf-gen-cn5g	latest	Trf	https://github.com/oai-5g/trf-gen-cn5g	Trf (Traffic Generator) for 5G Core

CNF Name	branch name	tag	UBUNTU 18.04	RHEL8 (UBI8)
FED REPO	N/A	v1.4.0		
AMF	master	v1.4.0	X	X
SMF	master	v1.4.0	X	X
NRF	master	v1.4.0	X	X
SPGW-U-TINY	master	v1.4.0	X	X
UDR	master	v1.4.0	X	X
UDM	master	v1.4.0	X	X
AUSF	master	v1.4.0	X	X
UPF-VPP	master	v1.4.0	X	X
NSSF	master	v1.4.0	X	X

```
# Clone directly on the latest release tag
$ git clone --branch v1.4.0 https://gitlab.eurecom.fr/oai-cn5g/oai-cn5g-fed.git
$ cd oai-cn5g-fed
# If you forgot to clone directly to the latest release tag
$ git checkout -f v1.4.0

# Synchronize all git submodules
$ ./scripts/syncComponents.sh
-----
OAI-NRF      component branch : master
OAI-AMF      component branch : master
OAI-SMF      component branch : master
OAI-SPGW-U   component branch : master
OAI-AUSF     component branch : master
OAI-UDM      component branch : master
OAI-UDR      component branch : master
OAI-UPF-VPP  component branch : master
OAI-NSSF     component branch : master
-----
git submodule deinit --all --force
git submodule init
git submodule update
```

Later versions of the `master` branch may not work with the pulled images.

You are ready to [Configure the Containers](#).

You can also go [back](#) to the list of tutorials.