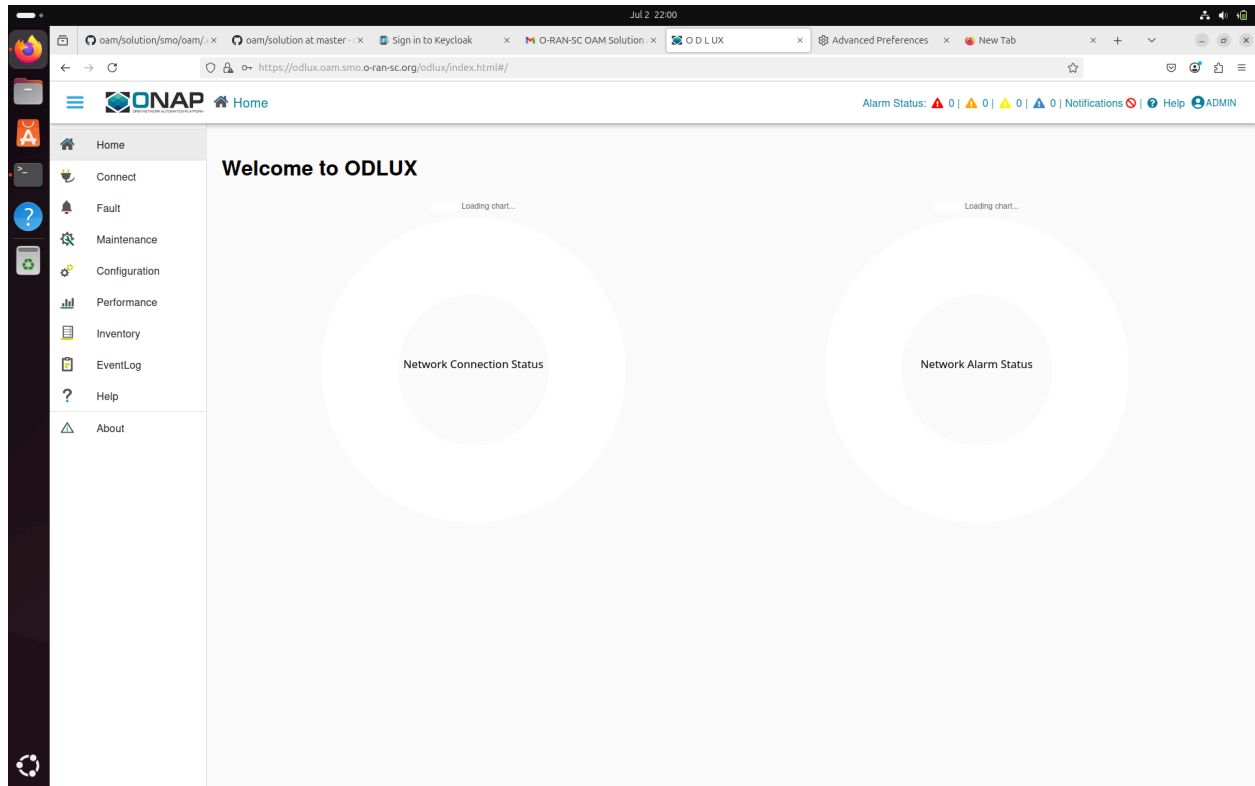


Relevant Documents



Basics of kubernetes and minikube

<https://kubernetes.io/docs/tutorials/hello-minikube/>

Docker docs

<https://docs.docker.com/get-started/>

<https://labs.play-with-docker.com/>

O-RAN Repo

<https://gitlab.eurecom.fr/oai>

O-RAN Docker implementation ?

<https://gitlab.eurecom.fr/oai/cn5g/oai-cn5g-fed/-/tree/develop>

Open source O-RAN 5G CU/DU solution from Software Radio Systems (SRS)

https://github.com/srsran/srsRAN_Project

<https://docs.srsran.com/projects/project/en/latest/>
<https://docs.srsran.com/projects/project/en/latest/tutorials/source/k8s/source/index.html>
<https://github.com/o-ran-sc/it-tifg?scrlybrkr=07a53424>

Tools Mentioned ^^

<http://grafana.com/oss/grafana/>
<https://helm.sh/docs/> (package manager for kubernetes)

Probably relevant stuff in here

<https://lf-o-ran-sc.atlassian.net/wiki/spaces/ORAN/overview?mode=global>

5G Implementation

https://github.com/open5gs/open5gs/blob/main/docs/_docs/guide/01-quicksart.md

dcatena-node-node1-2.sb9.orbit-lab.org-2025-07-02-03-11-02.ndz

INFO node1-2.sb9.orbit-lab.org:

INFO node1-2.sb9.orbit-lab.org: - Saving image of '/dev/sda' on node
'node1-2.sb9.orbit-lab.org'

INFO node1-2.sb9.orbit-lab.org: to the file
'dcatena-node-node1-2.sb9.orbit-lab.org-2025-07-02-03-11-02.ndz' on host
'10.19.0.42'

INFO node1-2.sb9.orbit-lab.org:

INFO property.started: started = "true" (String)

INFO exp:

INFO exp: - Saving process started at: 2025-07-02 03:11:12 +0000

INFO exp: (this may take a while depending on the size of your image)

INFO exp: - Saving disk image of 'node1-2.sb9.orbit-lab.org' finished with
success.

INFO exp: - Saving process completed at: 2025-07-02 03:16:12 +0000

INFO exp:

INFO EXPERIMENT_DONE: Event triggered. Starting the associated
tasks.

INFO NodeHandler:
INFO NodeHandler: Shutting down experiment, please wait...
INFO NodeHandler:
INFO NodeHandler: Shutdown flag is set - Turning Off the resources
INFO run: Experiment pxe_slice-2025-07-02t03.05.49.333+00.00 finished
after 10:27

dcatena@console:~\$

<https://github.com/o-ran-sc/it-tifg>

Steps to setup Python:

Step-1 :

```
sudo apt update && sudo apt install -y make build-essential libssl-dev  
zlib1g-dev libncurses-dev libbz2-dev libreadline-dev libsqlite3-dev wget curl  
llvm libncursesw5-dev xz-utils tk-dev libxml2-dev libxmlsec1-dev libffi-dev  
liblzma-dev
```

Step-2:

```
cd /usr/src && sudo wget  
https://www.python.org/ftp/python/3.12.0/Python-3.12.0.tgz && sudo tar xvf  
Python-3.12.0.tgz && cd Python-3.12.0
```

Step-3:

```
sudo ./configure --enable-optimizations && sudo make -j$(nproc) && sudo  
make altinstall
```

Step-4:

```
python3.12 --version
```

Steps to create Virtual environment:

Step-1:

```
cd /root
```

(or)

```
cd /home/yourusername
```

Step-2:

```
python3.12 -m venv .venv
```

Step-3:

```
source .venv/bin/activate
```

OPEN DAYLIGHT:

STEP 1:

Setup ubuntu -> Microsoft Store -> Ubuntu 24.04.1 LTS (thin any LTS is fine)

(to get to your actual files do `cd /mnt/c/Users/.....`)

STEP 2:

Need to install JAVA 21

Follow Steps ->

```
sudo add-apt-repository ppa:openjdk-r/ppa
```

```
sudo apt update
```

```
sudo apt install openjdk-21-jdk -y
```

```
nano ~/.bashrc ->
```

place at bottom

```
export JAVA_HOME=/usr/lib/jvm/java-21-openjdk-amd64
```

```
export PATH=$JAVA_HOME/bin:$PATH
```

```
source ~/.bashrc
```

STEP 3:

Go to OpenDaylight and download the latest tar ->
<https://docs.opendaylight.org/en/latest/downloads.html>

Then do -> tar -xvzf (filename) -> cd (filename)
Then run OpenDaylight-> ./bin/karaf

Run these in the OpenDaylight:
feature:install odl-restconf
feature:install odl-netconf-topology
feature:install odl-netconf-connector-all

STEP 4:

Now that should be set up so you can connect to the the url
<http://localhost:8181>

You have to change this in the code (VS Code ctrl + SHFT + f -> loo for
<https://odlux.oam.smo.o-ran-sc.org> and replace all with
<http://localhost:8181>)

No vs code then have to do it all manually

You also have to change ODL_CONTROLLER_PASSWORD in the
Makefile to "admin"

The framework should run then

Did not get the grafana and timescaledb set up or working

Image:

["jsharshitha-node-node1-1.sb1.orbit-lab.org-2025-06-14-23-42-43.ndz"](https://jsharshitha-node-node1-1.sb1.orbit-lab.org-2025-06-14-23-42-43.ndz)
june-14-2025. Finished setting up open daylight and all requirements for
running testcases.

