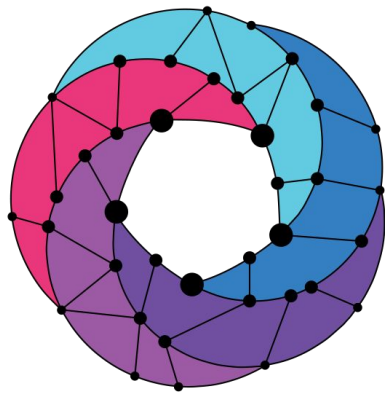




Open Source MANO

Charmed OSM Debugging mode

Wajeeha Hamid (Product Manager, OSM MARCOM) - Canonical

David Garcia (Software Engineer, N2VC MDL) - Canonical

Dec 1, 2021 - OSM#12

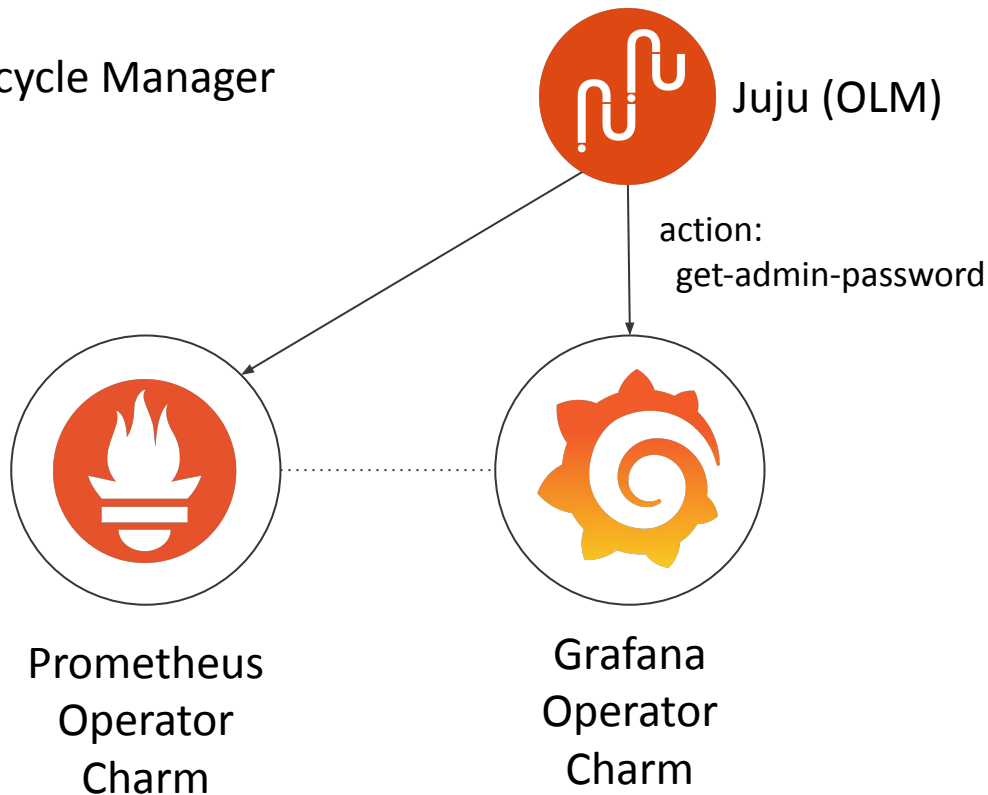


Canonical in OSM community

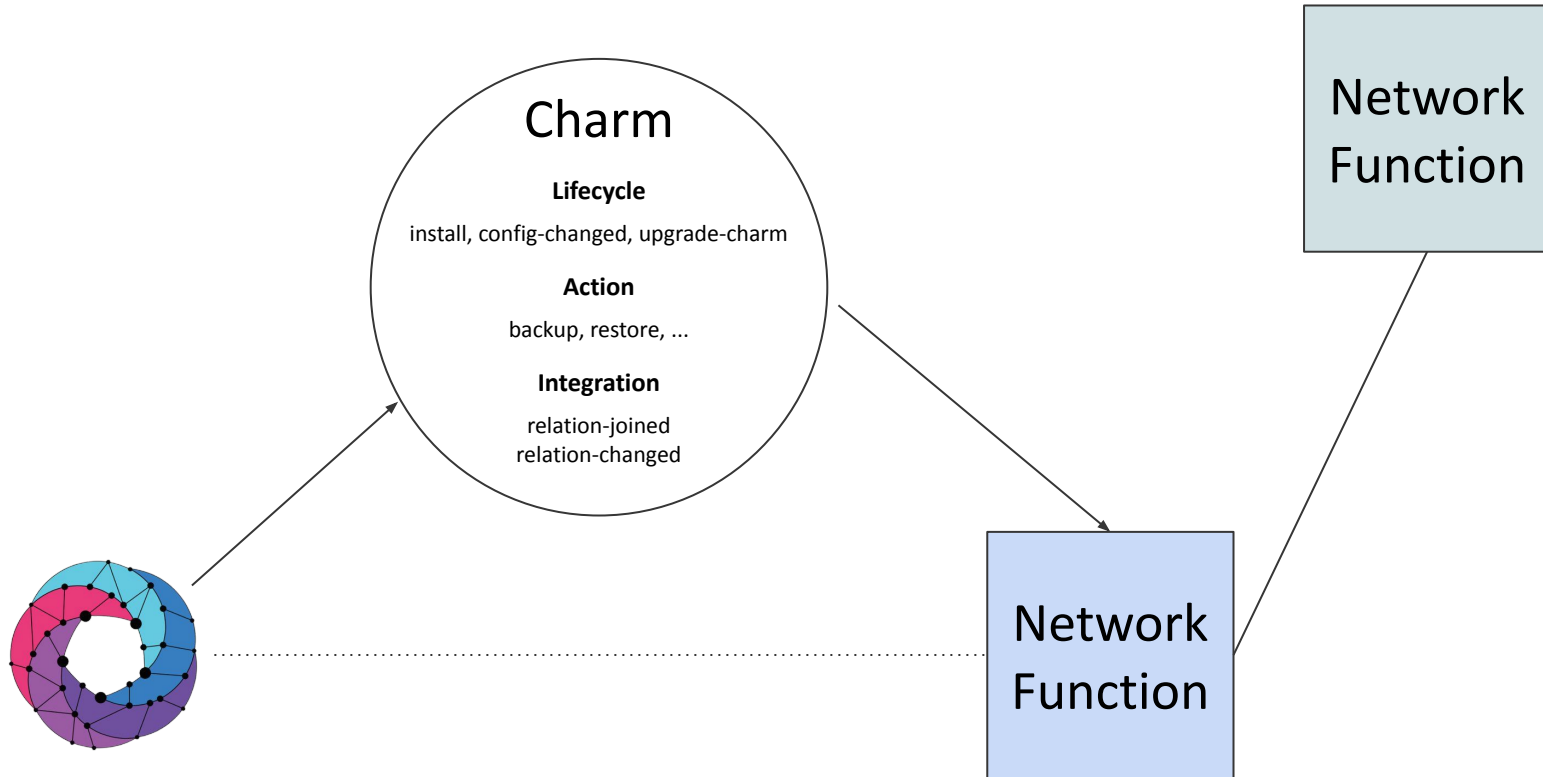
Senior Advisor	Mark Shuttleworth
TSC Member	Mark Beierl
N2VC Module Lead	David García
RO Module Lead	Eduardo Sousa
VNF Onboarding TF Chair	Maciej Mazur
OSM MARCOM TF Chair	Wajeeha Hamid

Juju and Charms

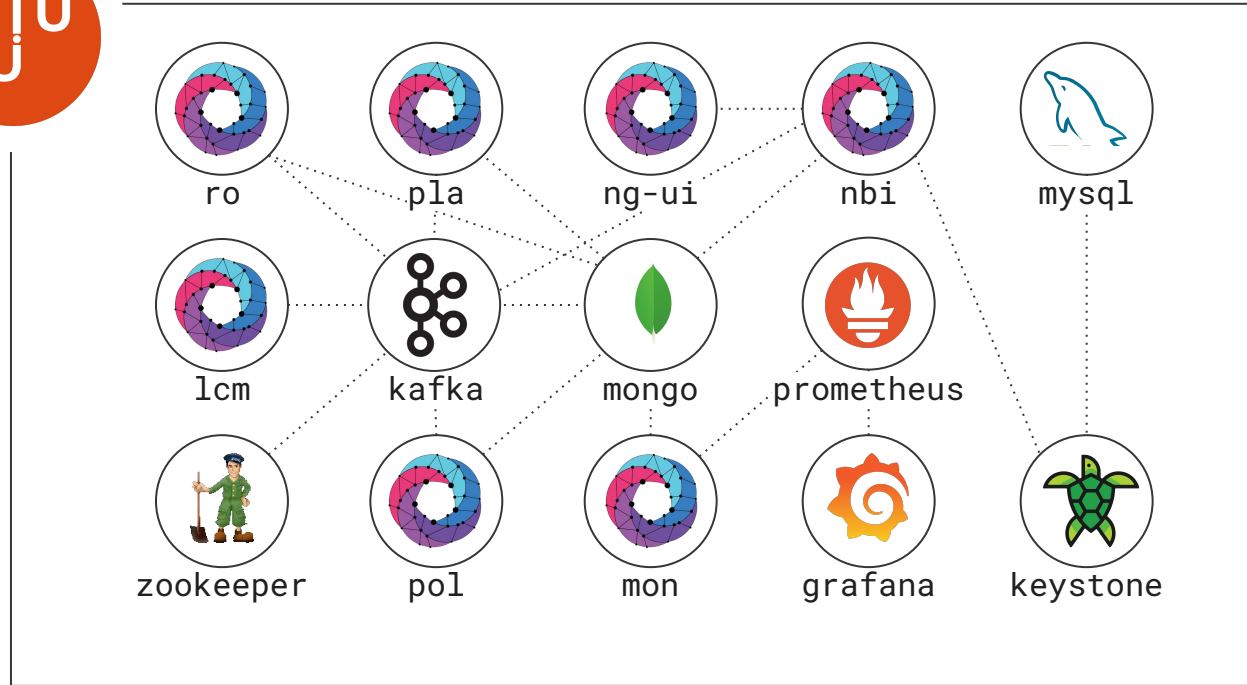
- Juju: Model-driven Operator Lifecycle Manager
- Charms:
 - Python Operators
 - Custom day-2 operations
 - Integration



Juju and Charms in OSM



Charmed OSM



“Open source, carrier-grade, **model-driven** OSM, with **enterprise support** and long term security updates, for the community, partners, and telcos.”



Debug Mode

What is it?

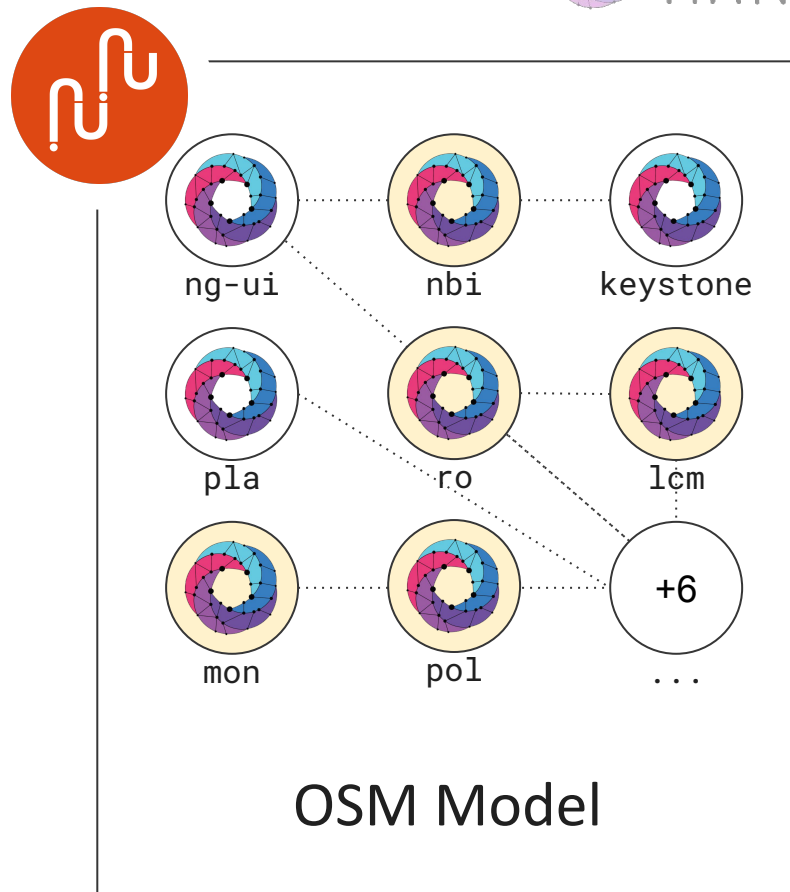
- Option in OSM charms to make them debuggable.
- Available in nbi, ro, lcm, mon, and pol.

Objective

- Deeper analysis in less time.
- Minimize the time for making and testing bug fixes.

Benefits

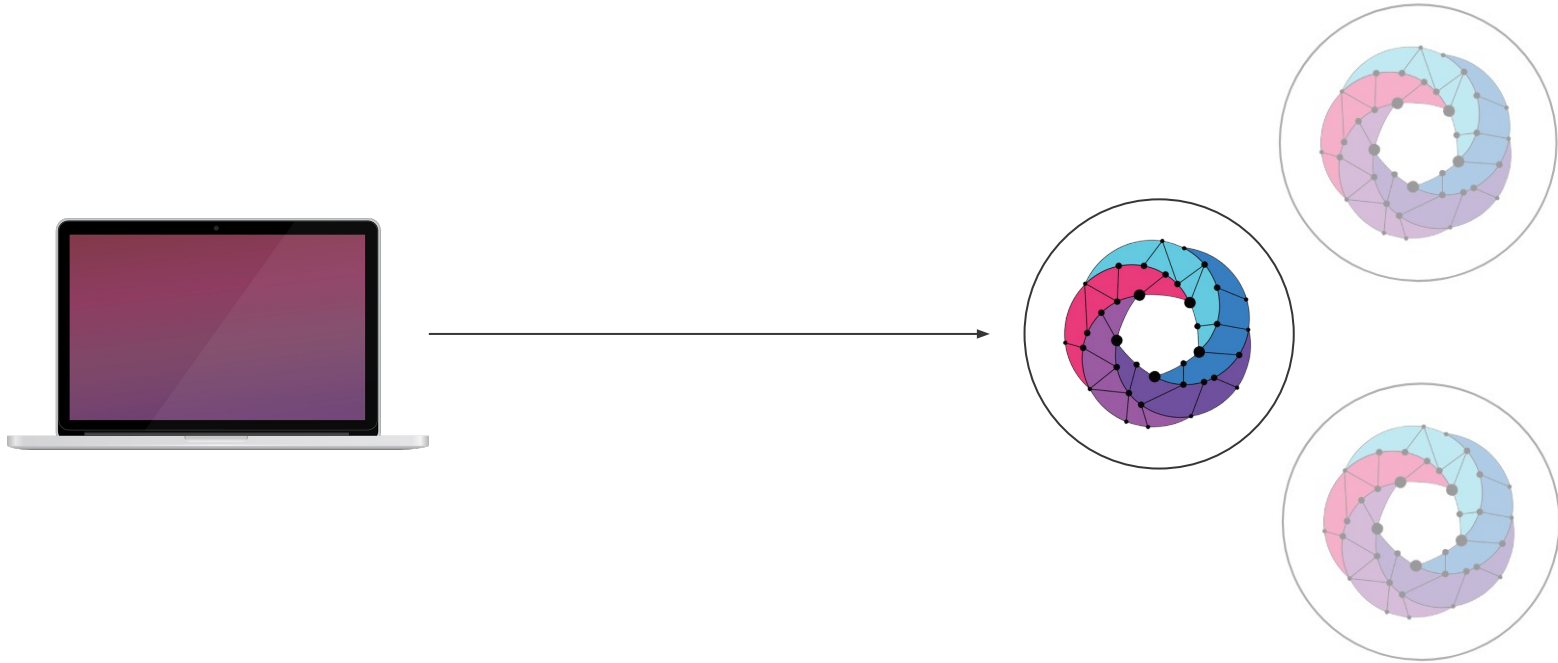
- Simple, simple, simple.
- Fast debugging - minimal setup.



Minimal setup

```
juju config nbi debug_mode=True
juju config lcm debug_mode=True
juju config ro debug_mode=True
juju config mon debug_mode=True
juju config pol debug_mode=True
```


Flexibility: local or remote





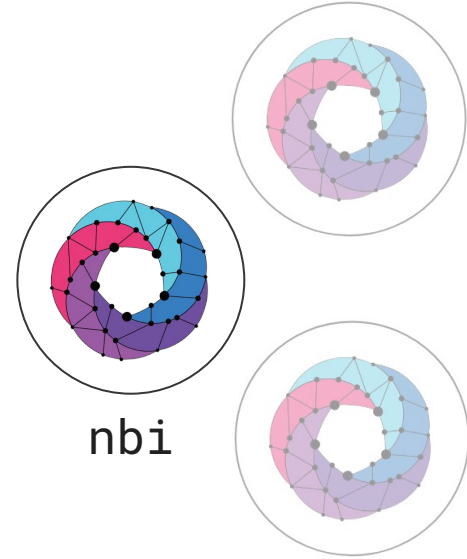
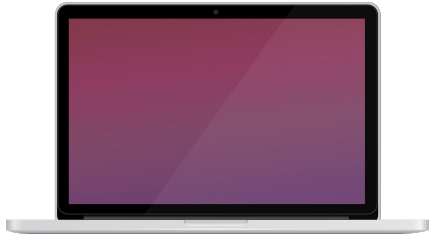
VsCode ready



No more docker build

How does it work?

\$



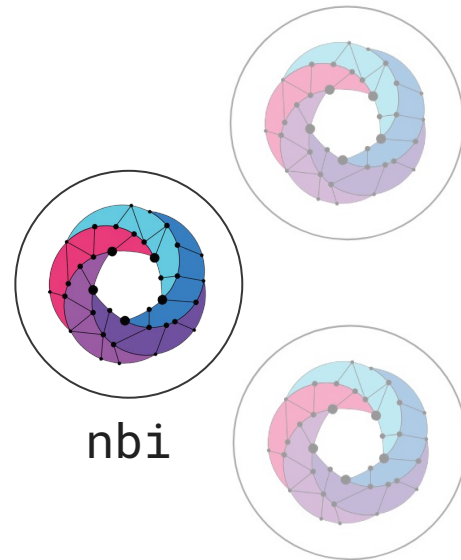
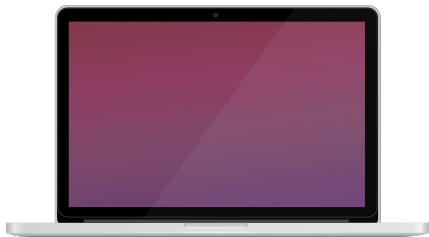
nbi

OSM Model

How does it work?

```
$ juju config nbi debug_mode=True
```

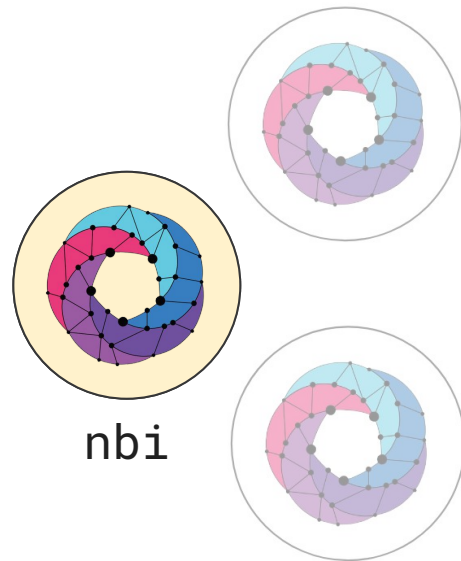
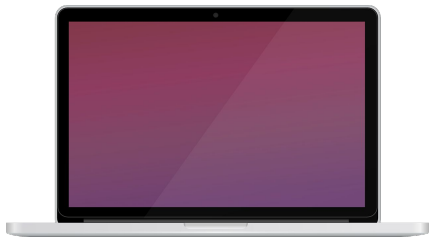
```
$
```



OSM Model

How does it work?

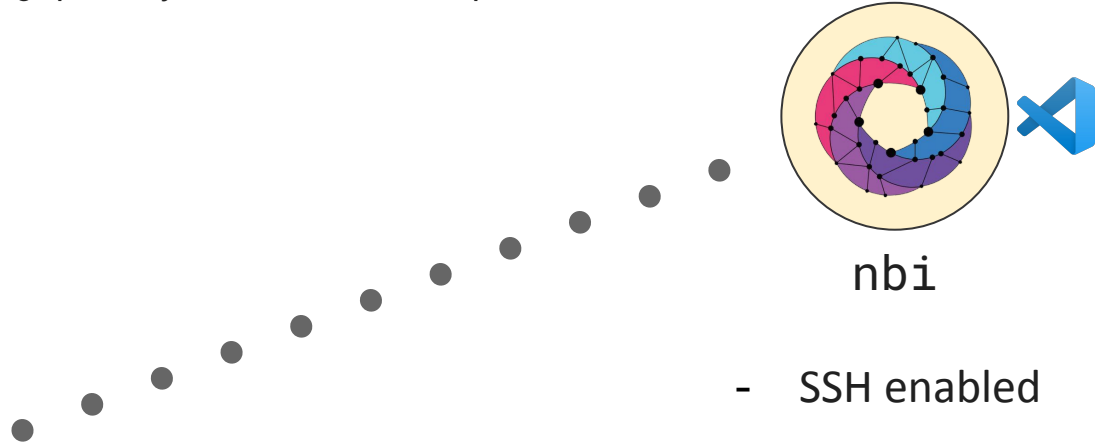
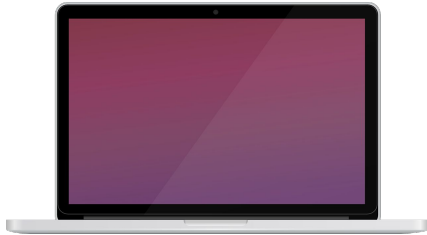
```
$ juju config nbi debug_mode=True  
$ juju config nbi debug_pubkey="`cat id_rsa.pub`"  
$
```



OSM Model

How does it work?

```
$ juju config nbi debug_mode=True  
$ juju config nbi debug_pubkey="`cat id_rsa.pub`"  
$
```



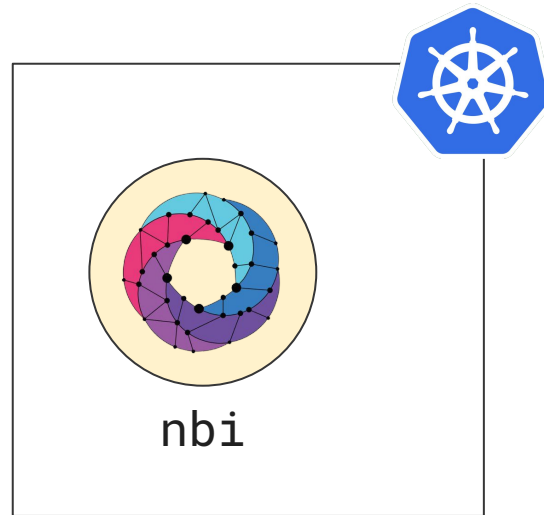
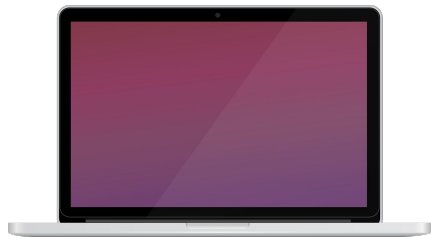
nbi

- SSH enabled
- VSCode workspace added

Demo

How does it work?

```
$ juju config nbi debug_mode=True  
$ juju config nbi debug_pubkey="`cat id_rsa.pub`"  
$
```

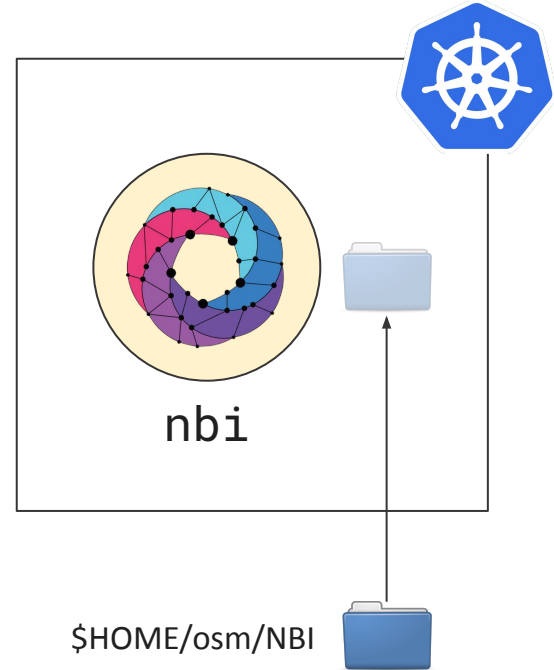
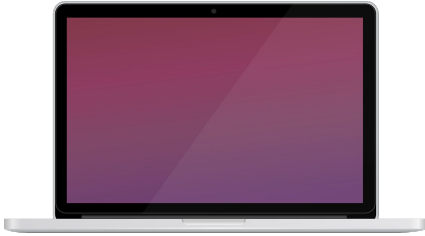


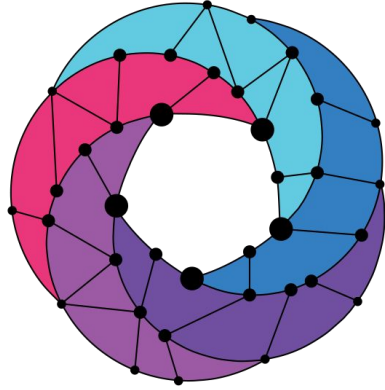
\$HOME/osm/NBI



How does it work?

```
$ juju config nbi debug_mode=True  
$ juju config nbi debug_pubkey="`cat id_rsa.pub`"  
$ juju config nbi debug_nbi_local_path="$HOME/osm/NBI"  
$
```





Open Source
MANO

Thank you!