Charmed OSM in a box

Mark Beierl (Canonical)
David Garcia (Canonical)
# Canonical in OSM community

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>Senior Advisor</td>
<td>Mark Shuttleworth</td>
</tr>
<tr>
<td>TSC Member</td>
<td>Mark Beierl</td>
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<tr>
<td>N2VC Module Lead</td>
<td>David García</td>
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<td>RO Module Lead</td>
<td>Gulsum Atici</td>
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<tr>
<td>VNF Onboarding TF Chair</td>
<td>Maciej Mazur</td>
</tr>
<tr>
<td>OSM MARCOM TF Chair</td>
<td>Wajeeha Hamid</td>
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</tbody>
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Day-1 and day-2 operations
Charm Operator
Lifecycle, actions and integration
Model-driven OLM
Operator Lifecycle Manager

Juju (OLM)

Network Service Model

...
Charmed OSM

- keystone
- mon
- pol
- grafana
- prometheus
- mysql
- lcm
- ng-ui
- nbi
- kafka
- mongo
- zookeeper
- ro
- pla
“Open source, carrier-grade, **model-driven** OSM, with enterprise support and long term security updates, for the community, partners, and telcos.”
Standard installation

$ wget https://osm-download...install_osm.sh
$ chmod +x install_osm.sh
$ ./install_osm.sh --charmed
Small Installation Profile

• No installer needed
• Minimal footprint
• **Kubernetes-focused** installation
  • LXD not provisioned
• Ideal for developers
Small Installation Profile

- Juju
- Charmed OSM
- MicroK8s
Installation steps

$ juju bootstrap microk8s
$ juju add-model osm
$ juju deploy osm --trust --channel beta
Installation steps

$ JUJU_PATH=~/.local/share/juju
$ juju config vca-integrator k8s-cloud=microk8s \
controllers="`cat $JUJu_PATH/controllers.yaml`" \
accounts="`cat $JUJu_PATH/accounts.yaml`" \
public-key="`cat $JUJu_PATH/ssh/juju_id_rsa.pub`"
Installation steps

```
$ sudo snap install osmclient
$ juju status nbi
App  ...  Charm    Store       OS          Address
nbi  ...  osm-nbi  charmhub  kubernetes  10.152.183.61
$ export OSM_HOSTNAME=10.152.183.61
```
Thank you!