Charmed OSM



"Open source, carrier-grade, hardened OSM, with

for the community, partners, and telcos."

enterprise support and long term security updates,

Open source

Carrier-grade

Hardened OSM

Full enterprise support

Long term security updates

For the community, partners, and telcos

Why choose Charmed OSM?

- Partner program for GSIs and NEPs
- High availability
- Automated operations

Canonical's business is to support Ubuntu at scale in telco and other sectors. Successful MANO drives NFV transformation and adoption of Ubuntu. We invest in OSM for the industry, and are happy to partner.

Canonical in the OSM community





TSC Member

N2VC Lead

DevOps Lead

Charmed OSM Lead

VNF Configuration Adapter



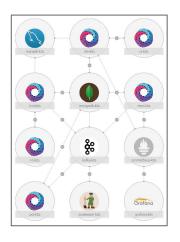
"The Operator Pattern"

Use software to drive software.

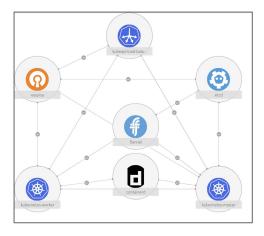
Juju is a *universal operator lifecycle manager*.

Universal Operators - VM, Cloud, Metal & CAAS

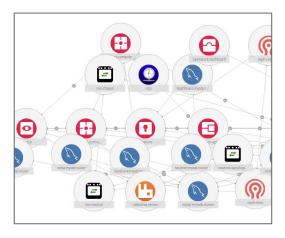
Operators for both new containerized and legacy estate



Kubernetes

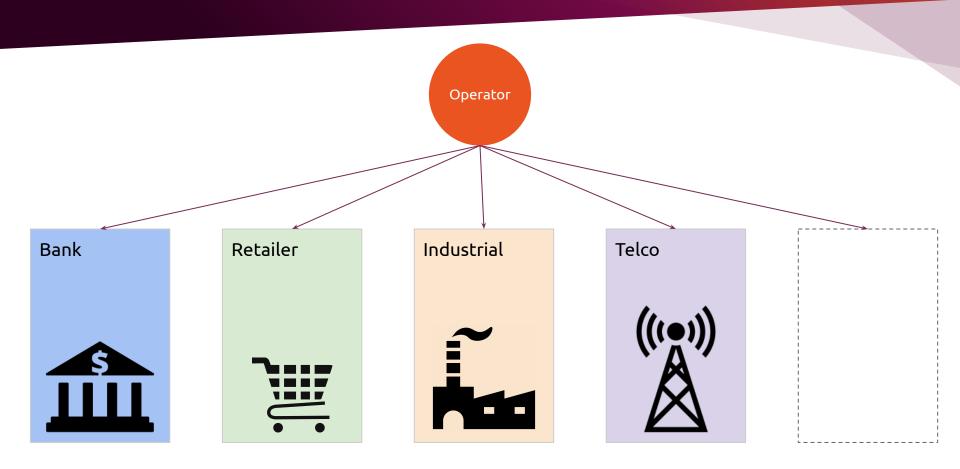


VM / Cloud

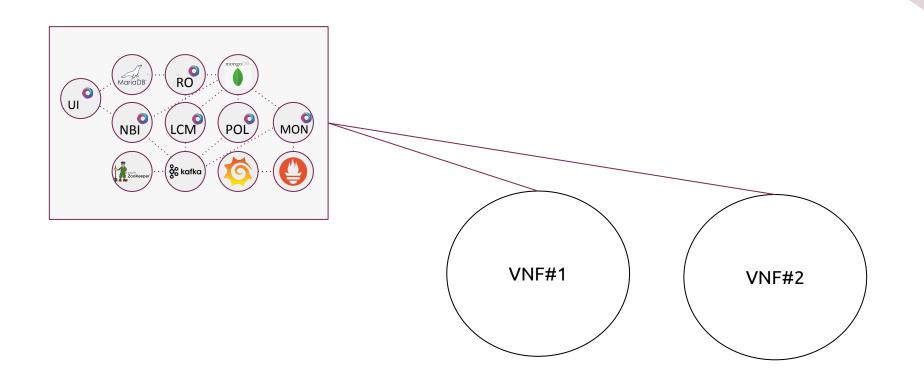


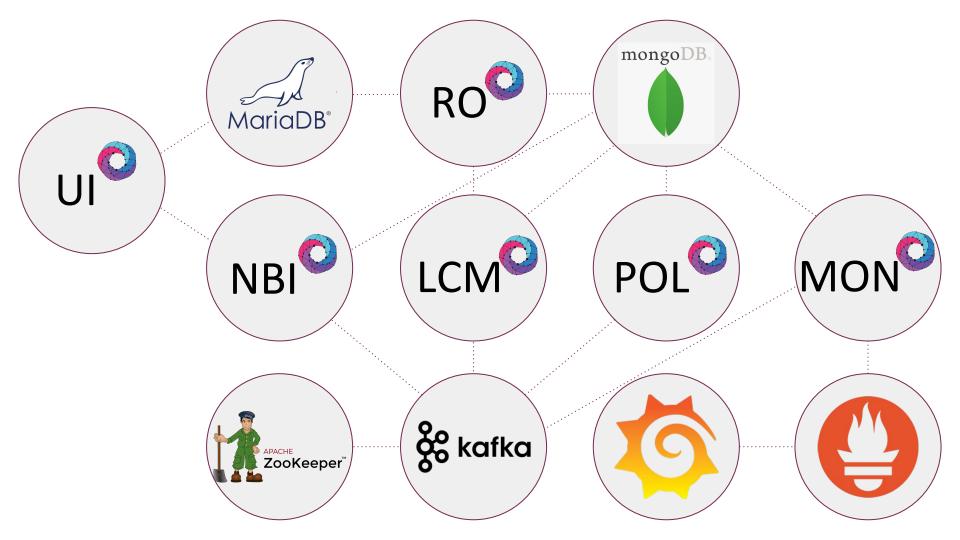
Bare metal

Exactly the same operator at many companies



OSM manages VNFs





A charm is an operator package

Lifecycle

- install
- config
- update
- remove
- scale

Integration

- relate-mysql
- relate-ldap
- relate-proxy
- relate-...

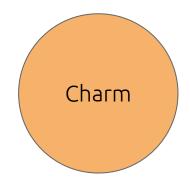
Workflows / Operations / Actions

"action: backup"
"action: restore"
"action: scan-viruses"
"action: health-check"
"action: add-repo"

"action: ..."

"action: ..."

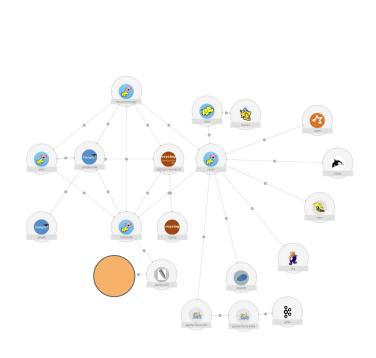
"action: ..."

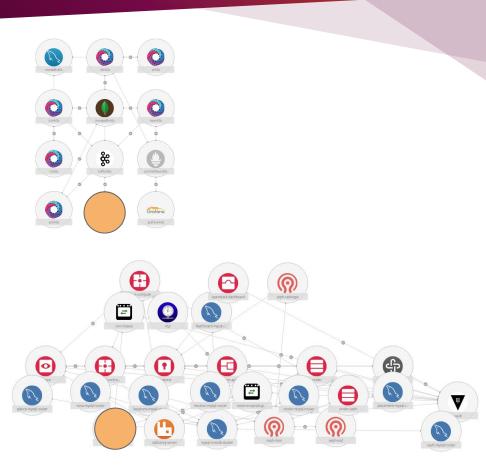






Exactly the same charm in many topologies





Charmhub - the open operator collection





















App servers

Big data

Containers Databases

Keystone

Kubernetes Identity Monitoring Network

Openstack

Operations

Performance

Security System Storage

Charmers

Containers

Bigdata-charmers

Publisher

Store Developers

Discourse 🗗

Docs

About

Gomboli 🗸

Categories

Analytics



N2VC osm-charmers

OSM component in charge of VNF installation, configuration & integration.



Search

LCM

osm-charmers

OSM component in charge of lifecycle management for VNFs and indicators.



Q

MON

osm-charmers

OSM Monitoring component in charge of metrics collection.

Sort by



NBI

osm-charmers

OSM North Bound Interface component. ETSI SOL005 compliant.



Prometheus

prometheus-charmers

A systems and service monitoring system that collects metrics.



Elasticsearch

llama-charmers

Search and analytics engine for textual, numerical, geospatial, structured, and unstructured data.



Kafka

bigdata-charmers

A unified, high-throughput, low-



MariaDB

mariadb-charmers

A relational database that provides



Grafana

llama-charmers

Multi-platform analytics,

OSM installer

```
$ ./install_osm.sh --charmed --k8s=... --lxd=...
```

Charmed OSM - ecosystem















Any Kubernetes

Flexible VIM options

Charmed applications



Base OS

Charmed OSM: Key features and Benefits

High availability

Streamlined lifecycle operations

Python operator framework

Operator ecosystem

Unified approach from dev to prod

FIPS compliance & CIS hardening

CVE patching of containers

Long-term enterprise support

Production-grade SLAs

Application delivery service

Overview

Desktop

Products ~

Partners

Channel/Reseller

Careers v

IHV/OEM

Global System Integrators

Public Cloud

Become a partner

programmes



At Canonical, we provide the services our partners need to ensure their hardware and software works optimally with the Ubuntu platform. This means working with technology leaders large and small, to provide the software, services, support and certification they need to complement their core competencies. For technology customers, this has created a thriving market of suppliers with Ubuntu expertise.



Are you an existing partner? Login to the partner portal

NEP VNF onboarding and certification

Use universal operators for your VNFs and leverage Canonical's expertise.

- Operators for VNF and infrastructure management
- Reusable operations code embedding business intent
- CVE patching of containers
- Hardened infrastructure

Own-brand charmed OSM Partners

For partners who offer OSM under their own brand.

- Branding and customisation
- Differentiated OSM offering
- Access to pre-certified VNFs
- FIPS, CIS, container CVE patching
- Predictable release cadence

Embedded charmed OSM

Integrate upstream charmed OSM with support from Canonical.

- Long-term enterprise support
- Production-grade SLAs
- Rapid deployment
- Integration with logging, monitoring and alerting stack



Thank you. Questions?

https://charmed-osm.com