

Open Source MANO

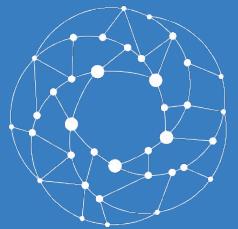
OSM-MR#9 Hackfest – Day 1 Part 2. OSM System Features

Dominik Fleischmann, David García, Mark Beierl, Guillermo Calviño (Canonical)

OSM features beyond NS orchestration



- High Availability
- Identity Management
- System Quotas
- System Monitoring



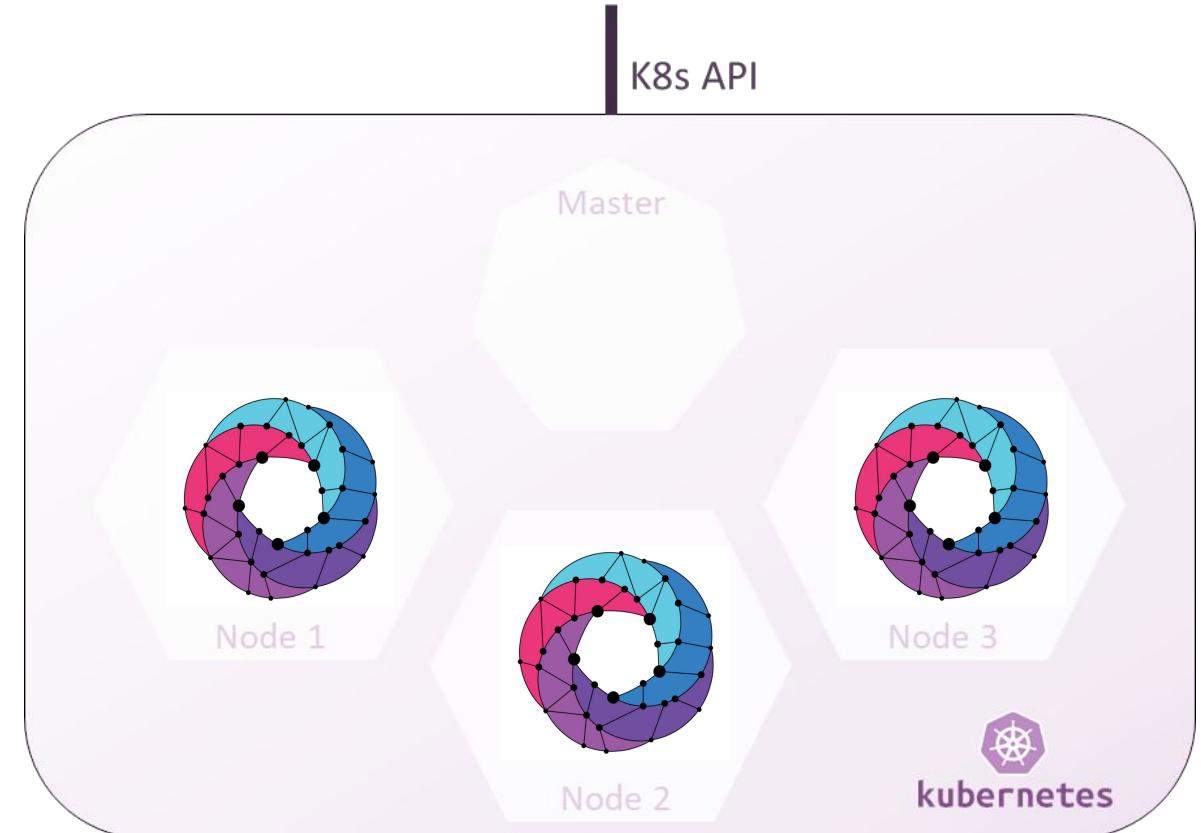
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OSM in HA



OSM in High Availability

- High availability → Increase uptime
 - Use of Kubernetes/Docker swarm
 - Use of redundancy



HA built into the upstream Charmed installer

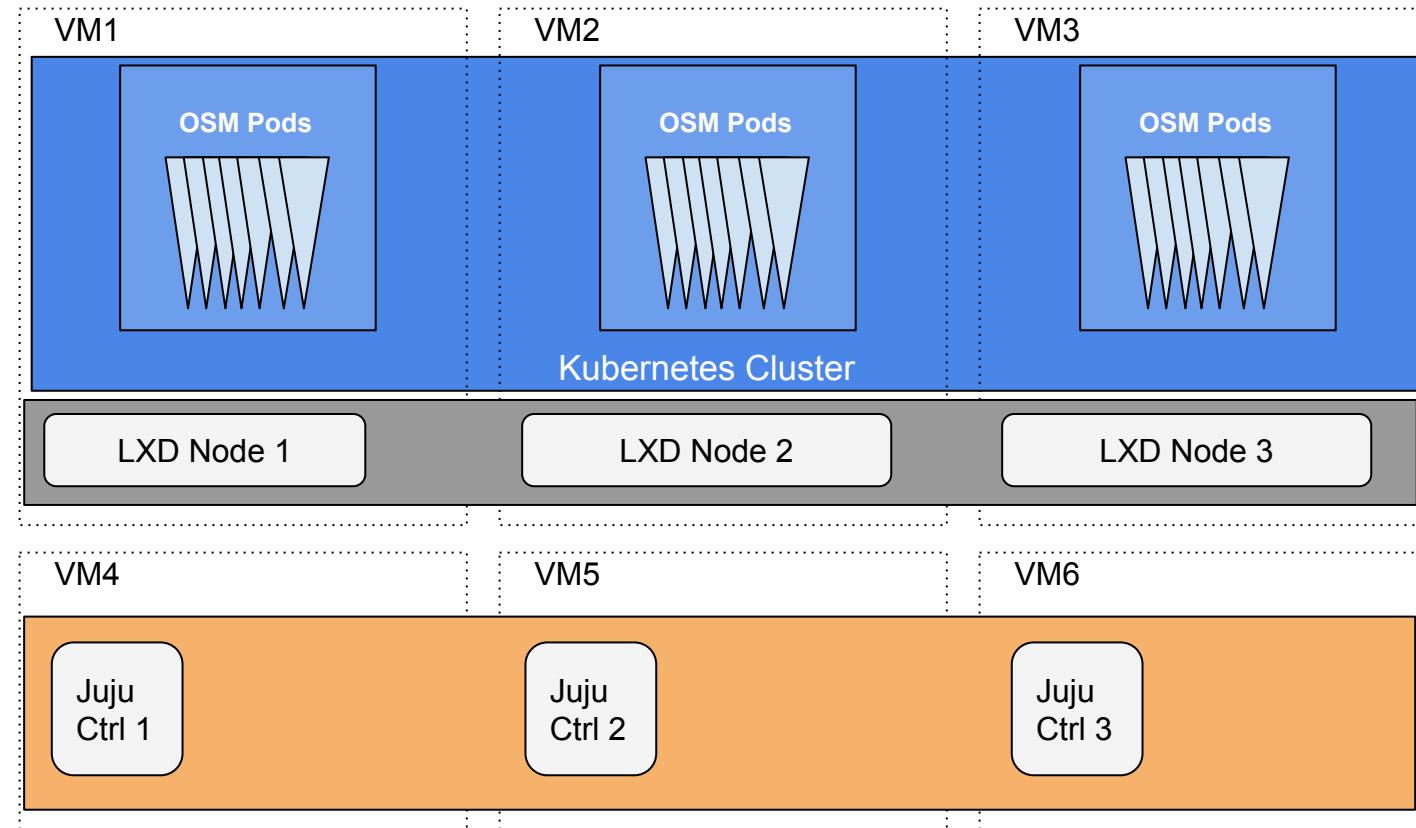
```
$ ./install_osm.sh --charmed --ha
```

Benefits of Charmed Installation

- Production-ready
 - HA, Backups, Upgrades...
- Lifecycle management
 - Configuration of OSM charms
 - Operations
 - Scaling
- Integration
 - Charms integrated via relations
- Ecosystem
 - OSM Charms are part of a larger operator collection

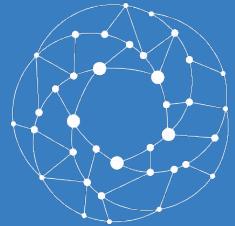
Infrastructure

- Kubernetes Cluster
 - OSM Pods
- LXD Cluster
 - Proxy Charms deployment
- Juju Cluster
 - VCA in HA



Demo

```
$ ./install_osm.sh --charmed  
--ha  
--lxd  
--lxd-cred  
--vca  
--k8s
```



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Identity Management



Identity Management

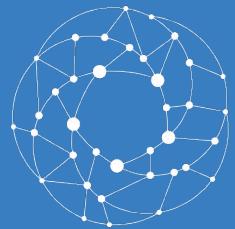
Gives appropriate access to resources to
the right people

Identity Management

- Roles
 - Permissions
- Projects
 - Organizational units
- Users
 - Associated to different projects with different roles

Demo

```
$ osm project-create development
```



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System Quotas



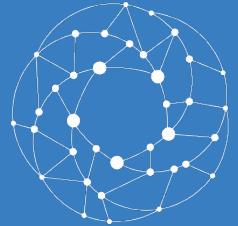
System Quotas

Solve a security risk

Limit the resources that can be allocated

Demo

```
$ osm project-create development  
    --quotas vnfds=1,nsds=1  
    --quotas ns_instances=1
```



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Hands-on: OSM System Monitoring

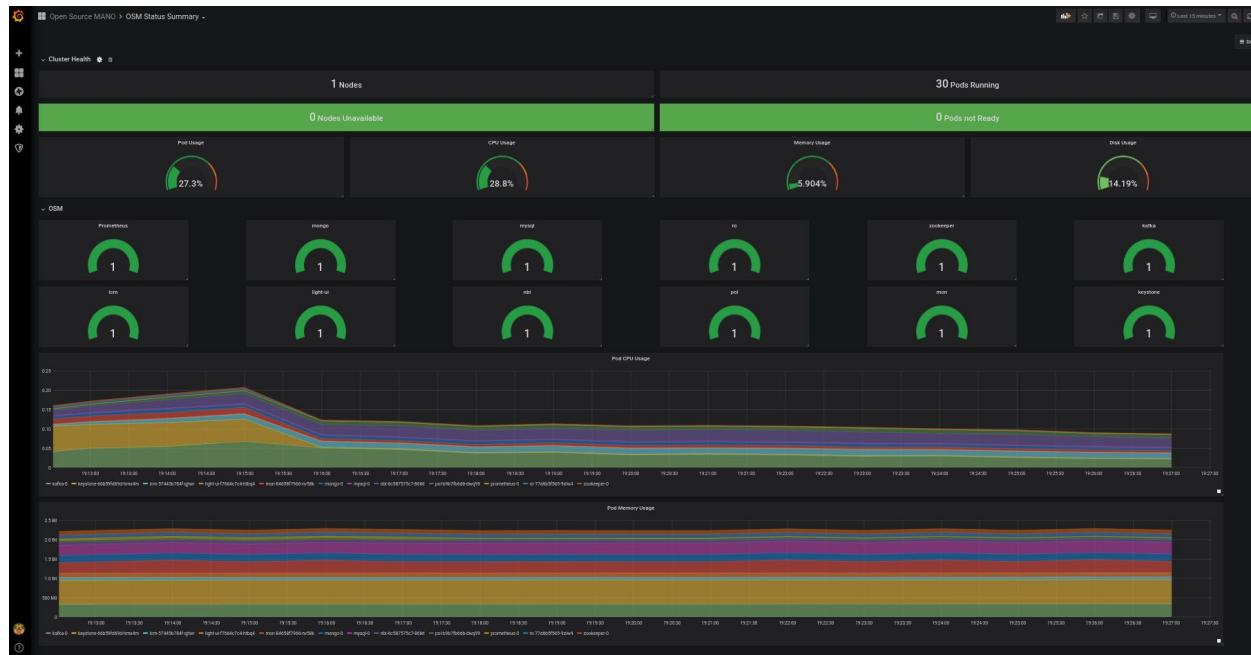


How to install K8 System Monitoring

Available in the K8s installation

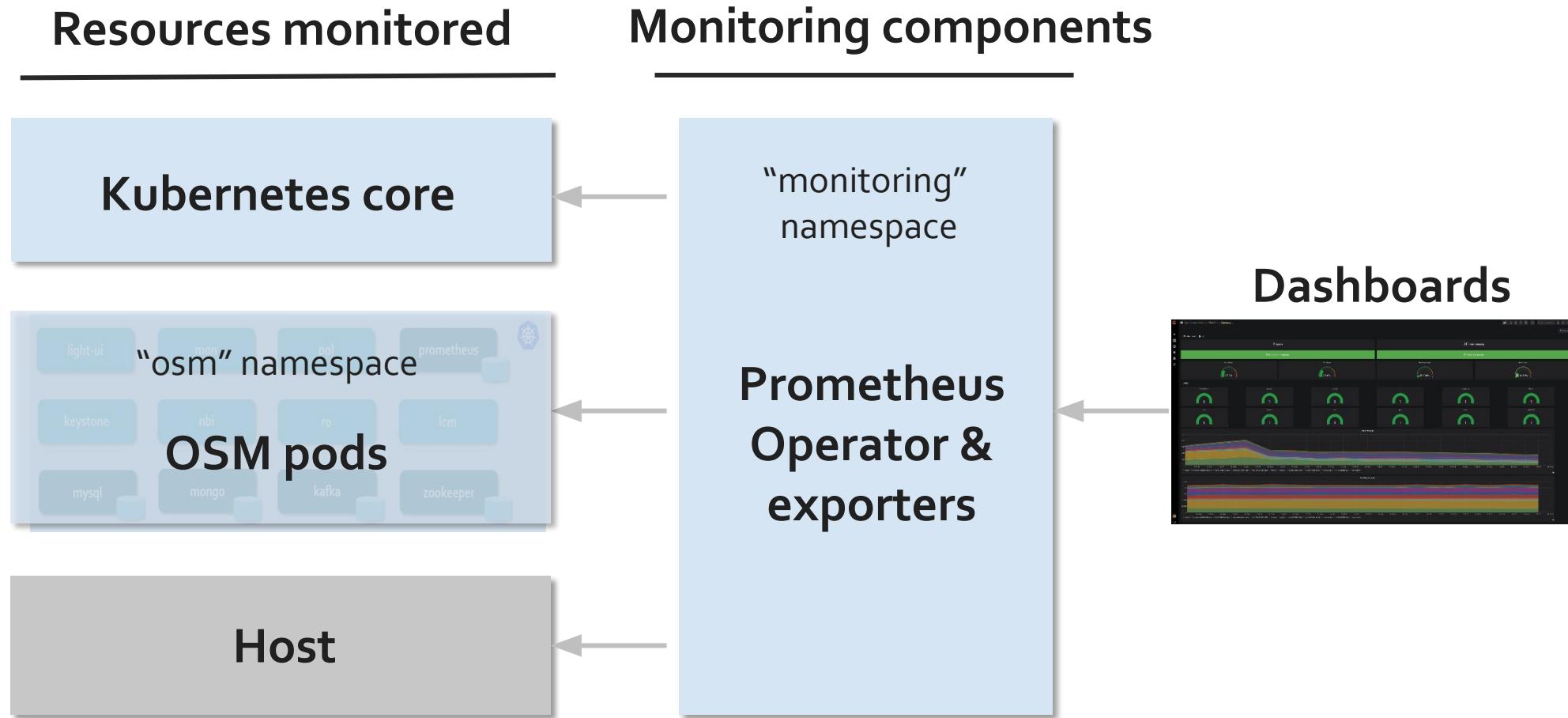
```
./install_osm.sh -c k8s --k8s_monitor
```

Access dashboard: <http://<osm-host>:3000>

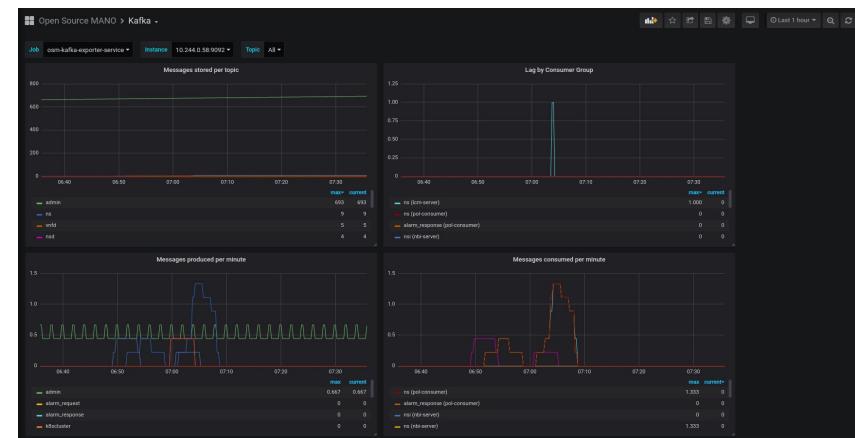
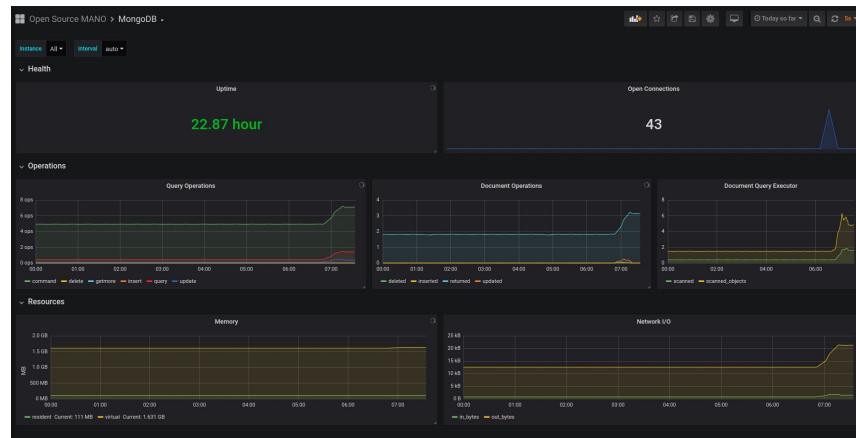
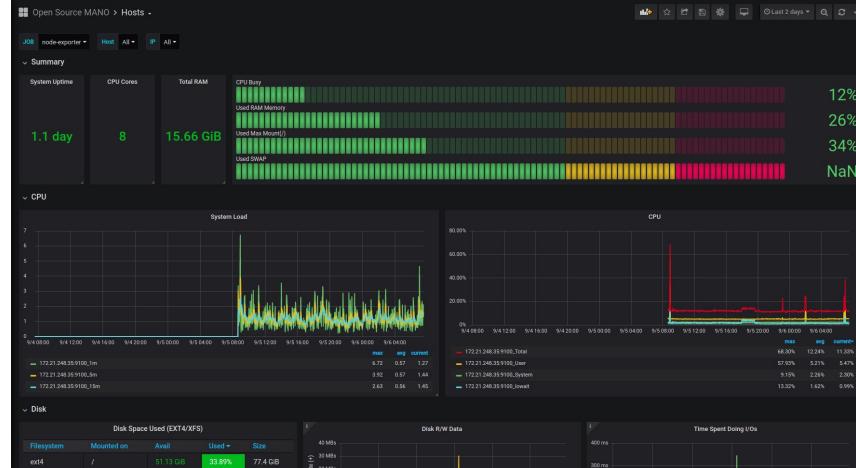


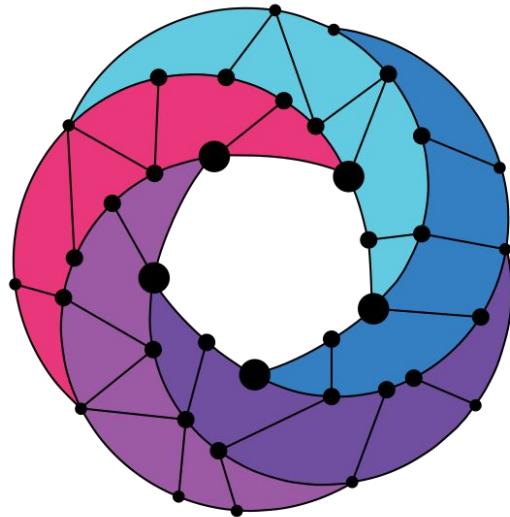
- ← Kubernetes health
- ← OSM component status
- ← OSM component resource consumption

What is installed



Comprehensive OSM monitoring





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Find us at:

osm.etsi.org
osm.etsi.org/docs
osm.etsi.org/wikipub