

# Open Source MANO

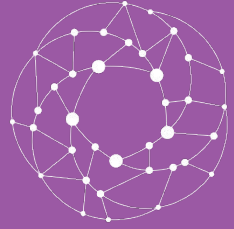
9th OSM Hackfest  
Hack 1: OSM installation in the HA mode  
Tytus Kurek (Canonical)

# Before we start

- High availability (HA) is an essential feature of every production environment
- You can easily deploy HA OSM clusters using the official installer (OSM rel 7.1)
- The installation method uses upstream OSM charms which unlock:
  - model-driven deployments and operations
  - Infrastructure-as-Code (IaC) approach
  - full automation
  - time/cost savings

# You will learn how to

- Deploy OSM in the HA mode using the official installer
- Monitor the installation process
- Perform daily operations of the OSM cluster using model-driven approach



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- You just need a Kubernetes cluster
- If you do not have one already, the installer will set up MicroK8s for you

## Prerequisites

**MicroK8s**



**Charmed  
Kubernetes**



**Google Kubernetes Engine**



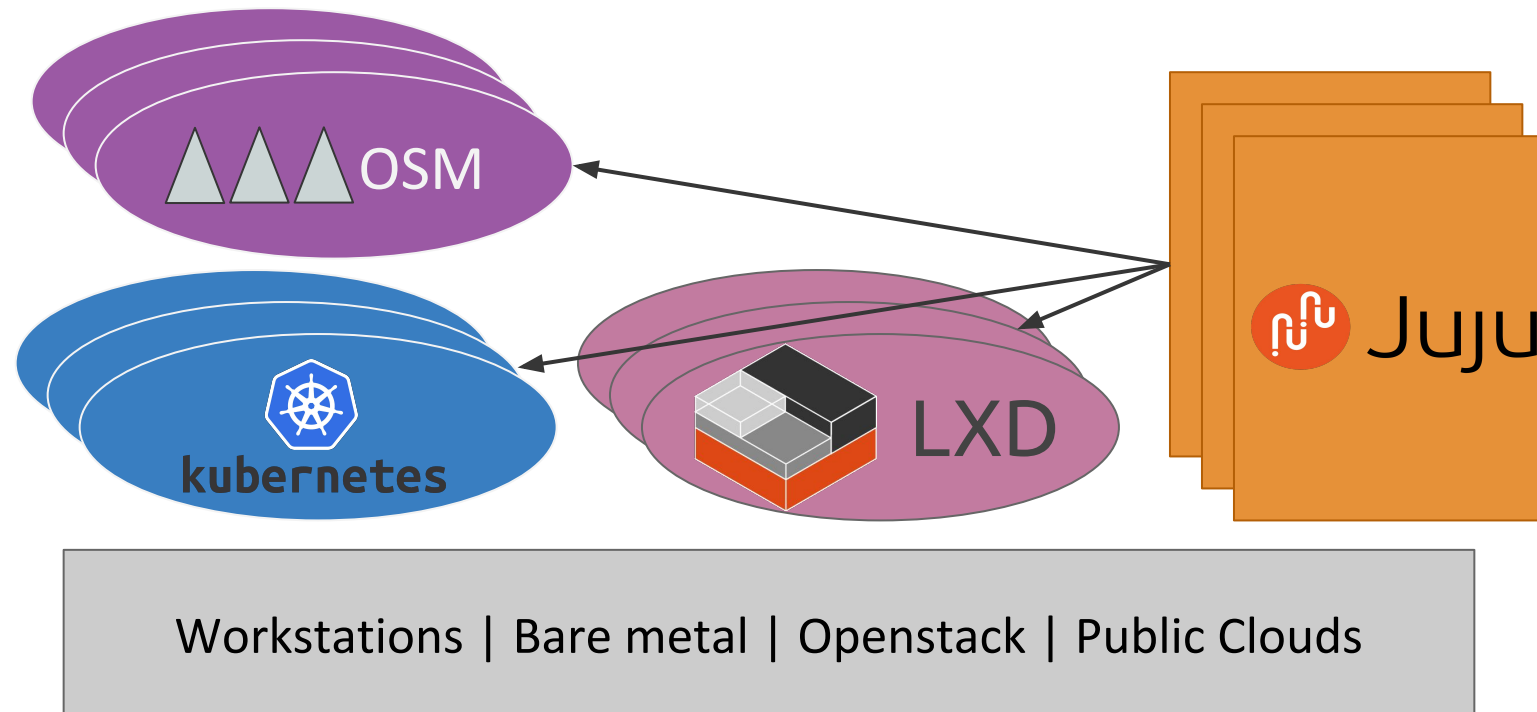
**Amazon EKS**



**Azure Kubernetes Service (AKS)**

# How does the installer work?

**A single command installs all infrastructure components and the OSM software on any substrate**



# Download and execute

```
wget https://osm-download.etsi.org/ftp/osm-7.0-seven/install_osm.sh
chmod +x install_osm.sh
...
./install_osm.sh \
  -t 7.1.0rc1 \
  -r testing \
  -R 7.1.0rc1 \
  -y \
  --charmed \
  --tag 7.1.0rc1 \
  --bundle https://jaas.ai/osm-ha/bundle/35
```



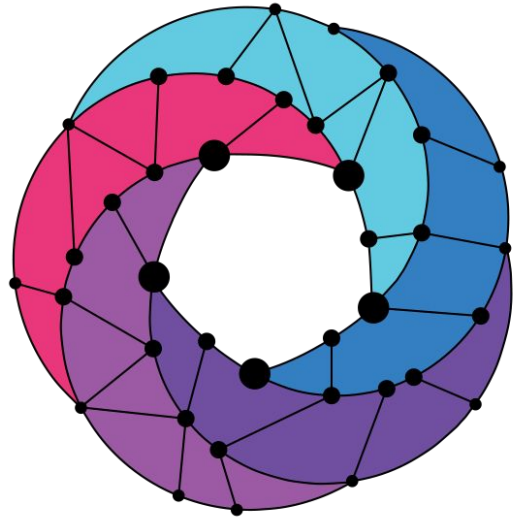
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**DEMO**

# Takeaways

- High availability is an essential feature of every production environment
- You can easily deploy HA OSM clusters using the official installer (OSM rel 7.1)
- The installer is substrate-agnostic; you can deploy OSM on any Kubernetes
- Single command installs all infrastructure components and the OSM software
- Using charms significantly simplifies post-deployment OSM operations





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