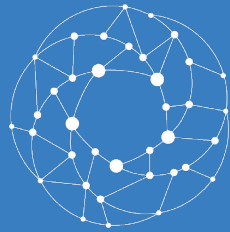


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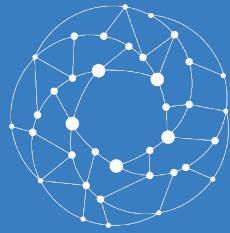
Community-driven onboarding

Mark Shuttleworth & Arno van Huyssteen (Canonical)



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Bootstrapping a community to create and maintain OSM VNFDs for both open source and proprietary network functions

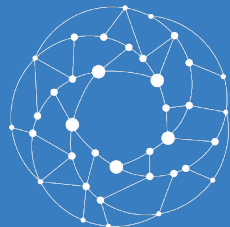


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System Integrator Engagements

SI Engagement Goals

- Canonical will appoint 3 SIs for open source VNFD creation
- Target high-visibility workloads, both open and proprietary
- Bootstrap a portfolio of OSM-compatible VNFDs
- Establish best practices for VNF onboarding in OSM
- Address issues in OSM uncovered by testing
- Accelerate OSM evaluation and adoption



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Community Engagement Method

Charm & VNFd Bootstrapping

3 paid SI engagements

Slack Channel

#vnf-onboarding

Charm Training

Online & On Site

VNF Onboarding Track

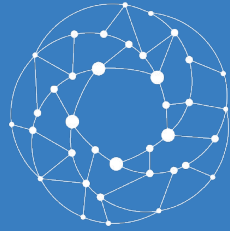
1 call per week
Europe Time

Charm Development Track

3 calls per week
Americas, Europe, Asia

Canonical Centers of Excellence

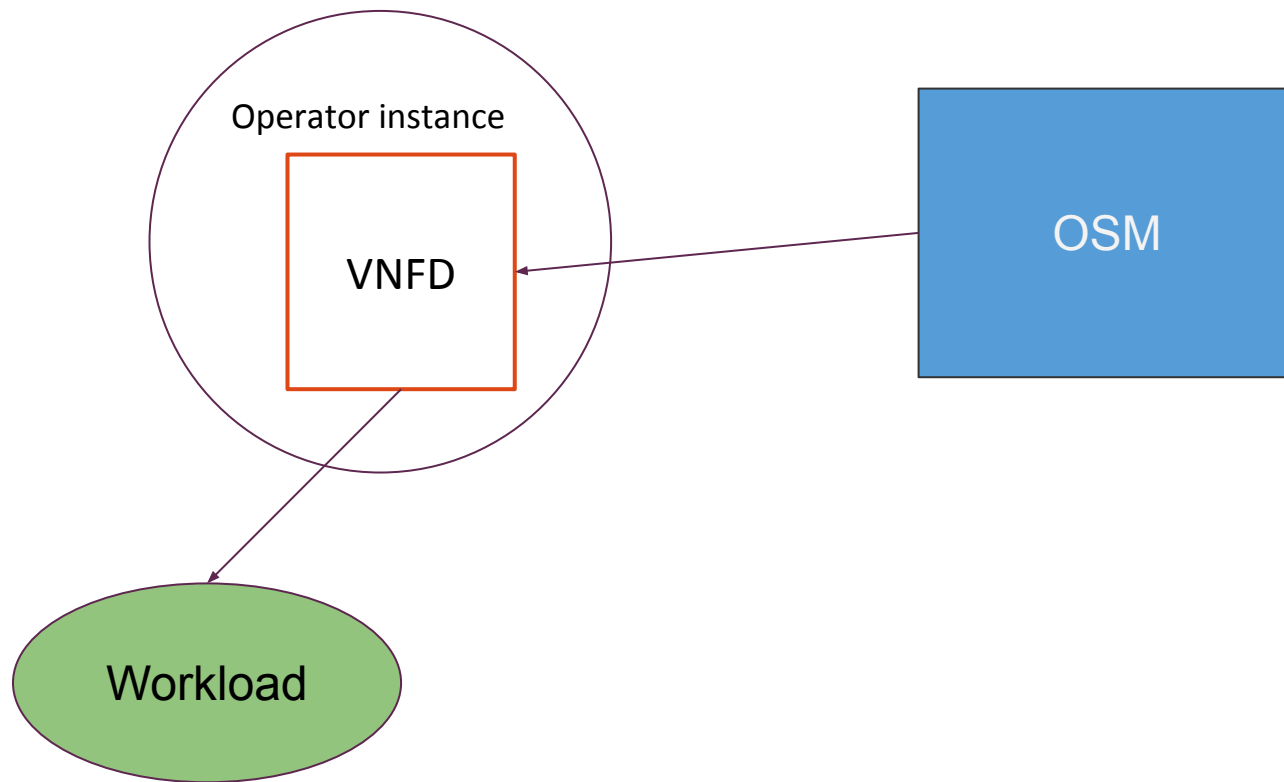
Slovakia, Brazil, Taiwan

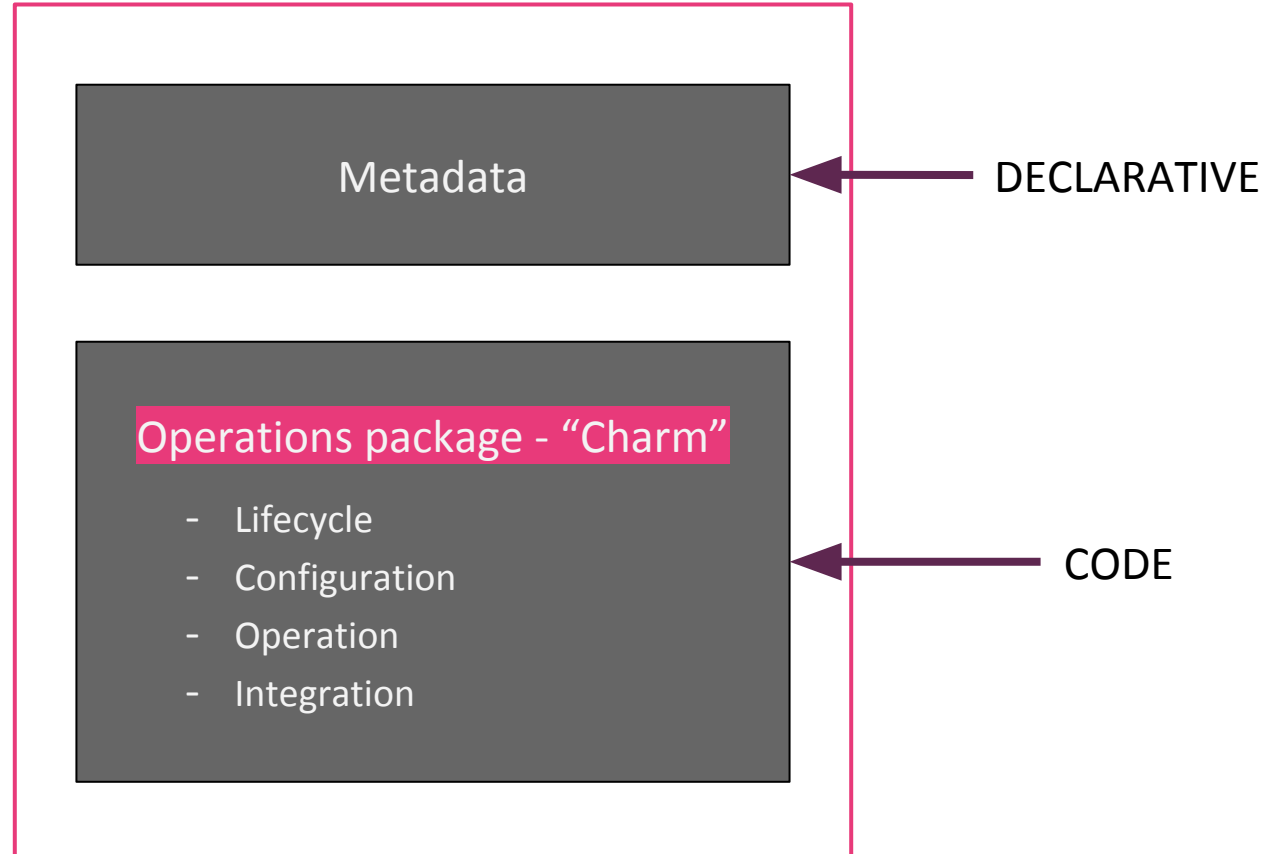


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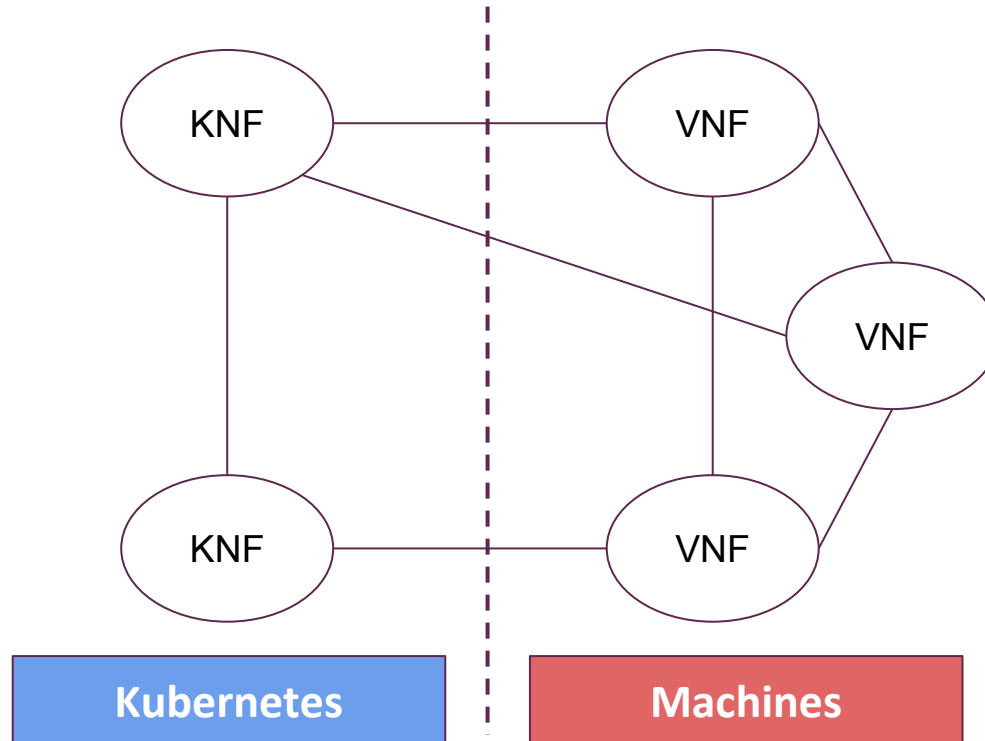
Reusable Code for Operations

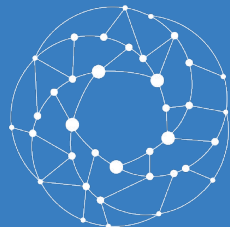
Operating workloads





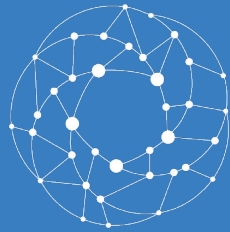
Unified operator framework for K8s and legacy workloads





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Python Operator Framework



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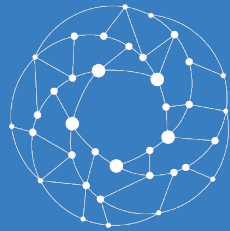
“Make it easy to create and maintain a
Kubernetes operator in pure Python”

Why Pure Python?

- High-level
- Widely known
- Low entry barrier
- Good for writing integration code
- Simple debugging & testing
- Cross-architecture

Python Operator Framework

- Class hierarchy
 - Charm; Event; Endpoint; StoredState; Action; Model; Unit ...
- Event system;
- Persistence layer;
- Minimal dependencies.



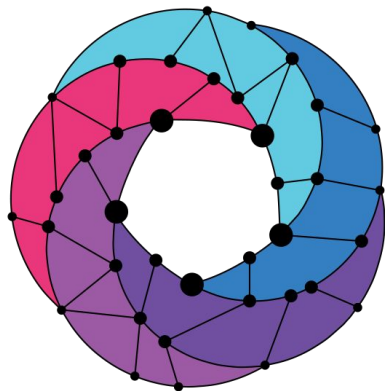
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Upstreaming Charmed OSM

OSM Operations in OSM

Shared Engine for OSM Distributions

- Global market for MANO is too large for one company
- Enable many SI and NEP OSM distributions
- Efficient mechanisms for customisation and differentiation
- Collaborate on operational mechanisms
- Reusable integrations for third-party solutions
- Optional escalation support from Canonical team



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Find the Canonical OSM team at:
arno.van.huyssteen@canonical.com