Welcome and Intro to the OSM workshop

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OSM Training Seminar - SLICES

13/02/2024
Objectives

● Learn about OSM and the role of an infrastructure orchestrator:
  ● Installation
  ● Usage
    ○ Multi-tenancy, users, projects and RBAC
    ○ Registering VIMs/Clouds and K8s clusters
    ○ Adding NF and NS packages to OSM
    ○ Instantiation
    ○ Operation
  ● Relevant documentation
● Practice through guided exercises
Gerardo García de Blas

- Technology Expert at Telefónica’s Global CTIO Unit, in the Cloud & Infra Area
- Working on topics related to multi-cloud tools and technologies, Kubernetes, GitOps, NFV, OSM, NF testing on top of public and private clouds, orchestration and automation in the telco area.
- Contributed to the ETSI NFV ISG, with special dedication to data plane performance of Network Functions.
- TSC member of ETSI OSM since the foundation in April 2016.
- TSC Chair of ETSI OSM since February 2022.
Requirements for participants

● Attendees need a laptop to follow the conference.

● Attendees will need to request access to a VPN provided by ETSI (details were provided by e-mail after registration and in advance to the training).
Hackfest resources

- Etherpad: https://osm.etsi.org/pad/p/OSM_Training_SLICES_Feb2024
- Slack: https://join.slack.com/t/opensourcemanono/shared_invite/zt-1688p662q-2ZUJghK_XeCJsoZWlH_KPA
  - Slack channel: #seminar-slices
- Presentations: OSM_Training_SLICES_Feb2024
- Google Classroom: https://classroom.google.com/c/NjYyMzg4NTI0OTUx?cjc=2iyzzqf
- Google Spreadsheet: Workshop environment resources
OSM resources

  - For information about how to install and use OSM
  - Troubleshooting: [https://osm.etsi.org/docs/user-guide/latest/09-troubleshooting.html](https://osm.etsi.org/docs/user-guide/latest/09-troubleshooting.html)
  - OSM IM: [https://osm.etsi.org/docs/user-guide/latest/11-osm-im.html](https://osm.etsi.org/docs/user-guide/latest/11-osm-im.html)
  - OSM NBI: [https://osm.etsi.org/docs/user-guide/latest/12-osm-nbi.html](https://osm.etsi.org/docs/user-guide/latest/12-osm-nbi.html)

- OSM Code:
  - Gerrit (code): [https://osm.etsi.org/gerrit/](https://osm.etsi.org/gerrit/)
  - Gitlab (code mirror, friendly UI): [https://osm.etsi.org/gitlab](https://osm.etsi.org/gitlab)

- OSM NF and NS packages: [https://osm.etsi.org/gitlab/vnf-onboarding/osm-packages](https://osm.etsi.org/gitlab/vnf-onboarding/osm-packages)

- OSM E2E Robot Tests: [https://osm.etsi.org/gitlab/osm/tests](https://osm.etsi.org/gitlab/osm/tests)
OSM resources

- OSM Public Wiki: https://osm.etsi.org/wikipub
  - Ecosystem
  - Hackfests and workshops

- OSM Private Wiki: https://osm.etsi.org/wiki
  - Minutes of calls

- OSM Feature proposals:
  - Tracking: https://osm.etsi.org/gitlab/osm/features/-/boards/44?group_by=epic
  - Looking for contributors: https://osm.etsi.org/gitlab/osm/features/-/boards/45
Agenda

● Day 1. Understanding OSM

1. Welcome and intro to the workshop
2. Introduction to OSM
3. OSM installation demo
4. Workshop Environment
5. OSM usage. Multi-tenancy, users, projects and RBAC.
6. OSM usage. Registering VIMs/Clouds and Kubernetes clusters
7. OSM usage. Adding NF and NS packages
8. OSM usage. Instantiation
9. OSM usage. Operation

● Day 2. Learning by doing through a use case

1. Practical exercise
   1. Onboarding of a CNF from a helm chart
   2. Onboarding of a VNF with Day-2 configuration
   3. Onboarding of a NS consisting of both a VNF and a CNF
   4. Instantiation
   5. Operation
2. How to contribute to OSM
3. Recap
Initial survey

- Questionnaire: https://forms.gle/NHtDaonY3pQuQJXg8
Recommendations to enjoy the seminar

Practical exercises require trial and error

• Try, try, try!

Ask questions

• Please ask! Everybody, including the instructor, will learn.

Please be patient

• One single instructor for 30+ people
• Technical problems might appear
• Bugs can be found