OSM DEMOS
Vanessa Little (vMware) - OSM TSC
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OSM GAINING TRACTION

Year ONE by the Numbers

Date of first OSM demo
Feb 22nd, 2016

1000+
lines of code
committed per day

20+
NEW downloads of
Release ONE per
day of since release

50+
participating companies in
Open Source MANO

Downloads from over
50
countries

Number of
validated
VIM plugins:
3

Number of
validated
SDN Controllers:
2

Number of
steps to
install:
1

For more information visit
OSM.ETSI.org

Download Release ONE today!
DEMO 1: OSM MWC16 E2E ORCHESTRATION

- **BY:** 6Wind, Canonical, Indra, Intel, Metaswitch, Rift.IO and Telefónica

- **SCOPE:** A network core composed by 3 PE routers (multi-tenant VNF) is deployed with EPA characteristics and automatic dataplane underlay connectivity

- Multi site L3 VPN service with value added services

- A carrier VPN is provisioned and used to demonstrate 10 GbE line rate performance using a traffic generator.

- IMS Service deployed in a separate data center and call pinned up

- Video Available at: https://www.youtube.com/watch?v=JJlxwJStkTk&t=105s
DEMO 1 TOPOLOGY

VIM 1

1. Corp. SP 10.0.1.0/24
2. Corp. SP 10.0.2.0/24
3. Corp. A 10.0.1.0/24
4. Corp. A 10.0.2.0/24
5. Corp. A 10.0.4.0/24

VIM 2

1. SSL VPN 1
2. SSL VPN 2
3. Metaswitch
4. IMS-corpA
5. (domain, users)

Key:
- Multi-tenant VNF
- Single-tenant VNF
- VM tenant
- L2 connection for dataplane
- L2 connection for low BW
DEMO 2: LIFE CYCLE MANAGEMENT OF VIMS WITH OSM

• **BY:** xFlow Research, Metaswitch

• **Scope:** Deployment of Clearwater All-in-1 vIMS using OSM R#1 on OpenStack
  
  Deployment, configuration and management of full virtual IMS solution.

  vIMS NS/VNF package creation and deployment on OpenStack

  Video Available at: https://www.youtube.com/watch?v=x9zWQyRU2zY
DEMO 3: OSM DEPLOYMENT IN TO PUBLIC CLOUD

• **BY:** xFlow Research

• **Scope:** Deployment of sample NS (CirrOS, VyOS) on Amazon Web Services using OSM Release1

• Explanation of various available components in AWS

• Comparison of AWS components with OpenStack components

• Deck available for download here: [https://docbox.etsi.org/OSG/OSM/05-CONTRIBUTIONS/2017/OSM(17)000045_Public_cloud_-_AWS.pptx](https://docbox.etsi.org/OSG/OSM/05-CONTRIBUTIONS/2017/OSM(17)000045_Public_cloud_-_AWS.pptx)
DEMO 4: DEVOOPS IN SERVICE CHAINS AND 5G NETWORK SLICES

• **BY:** Telenor, Arctos Labs, Cisco, Intel, Netrounds, and RIFT.io

• **SCOPE:** Automation of active testing through DevOps approaches to network management during 5G network slice deployment.

• Dynamic control of virtual services and 5G network slices.

• Using OSM for advanced orchestration of virtual test agents as part of network service design (NSD) for full SLA assurance.
DEMO 4: TOPOLOGY

Cloud RAN

PGW

4G/5G Transport & Network Slices

Global Enterprise Network

Intra Data Center
DEMO 5: SERVICE ASSURANCE WITH VPROBES AND OSM

• BY: RADCOM
• SCOPE: OSM to deploy and configure MaverIQ vProbes
  • Create and instantiate a vProbe via OSM
  • Capture and monitor network traffic
  • Verify vProbe’s packet reception
DEMO 6: NETWORK SERVICES WITH INTEGRATED VNF VERIFICATION

• **BY:** Ixia, Canonical, DataArt Solutions, and Sonus

• **SCOPE:** Network Services with Integrated VNF Verification

• Automated deployment and execution of carrier-grade network testing and monitoring

• Packaging and modelling with OSM and Juju

• Using Ixia’s Phantom Virtual Tap for network visibility

• Using Ixia’s IxLoad Virtual Edition for comprehensive network testing

• Sonus Session Border Controller Software Edition to operate across diverse virtualized infrastructure
HOW TO SUBMIT AN OFFICIAL OSM POC

Process Highlights:

1. Join ETSI OSM

2. Present PoC proposal to the TSC with the purpose to
   - 1. Inform the OSM community
   - 2. Get feedback from the OSM community

3. Get approval to be listed as a OSM PoC

4. Send relevant information to OSM MARCOM for publishing on OSM website.

5. Present PoC results in TECH meetings with the purpose to:
   - 1. Regularly provide updates to OSM community and get feedback
   - 2. Complete the PoC - videos and supporting documentation

For more details, see the OSM wiki at: https://osm.etsi.org/wikipub/index.php