

Open Source
MANO
by ETSI

Practical Exercise

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OSM Training Seminar - SLICES

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Objective: learning by doing



- Create a VNF
 - Take a VNF from reference OSM packages and change something
 - Add VNF to OSM
- Optionally create a CNF
 - Take a CNF from reference OSM packages and change the Helm chart (KDU)
 - Add CNF to OSM
- Create a NS consisting of two NF: a VNF and a CNF
- Instantiate/deploy the NS
- Do an operation (scale, heal, day-2) over the VNF
- Terminate the NS

Reference: OSM packages

- Gitlab: <https://osm.etsi.org/gitlab/vnf-onboarding/osm-packages>

```
git clone --recursive https://osm.etsi.org/gitlab/vnf-onboarding/osm-packages.git
```

- VNF: [hackfest_basic_vnf](#)
- CNF: [openldap_knf](#)
- Scaling: [hackfest_basic_metrics_vnf](#)
- Healing: [autoheal_vnf](#)
- Day-2 operation: [simple_ee_vnf](#)

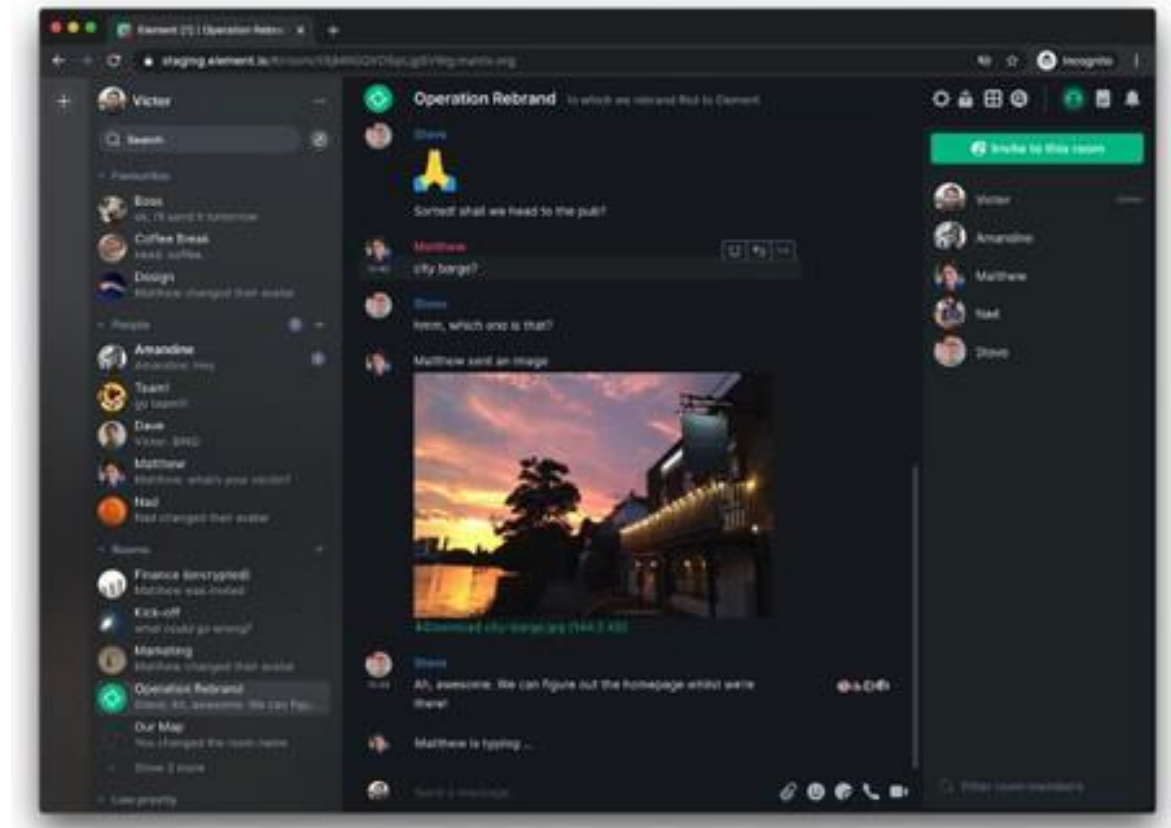
Advanced exercises

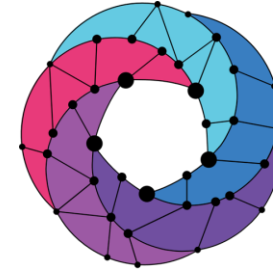
- Check previous OSM Hackfests:
 - https://osm.etsi.org/wikipub/index.php/Past_OSM_Hackfests
- OAI 5G Core: https://osm.etsi.org/wikipub/index.php/OSM-MR11_Hackfest
- Magma EPC: https://osm.etsi.org/wikipub/index.php/OSM13_Hackfest
- VNF onboarding challenge: https://osm.etsi.org/wikipub/index.php/OSM11_Hackfest
 - FreeRadius: <https://freeradius.org/>
 - PowerDNS: <https://www.powerdns.com/>
 - CoreDNS: <https://coredns.io/>
 - VyOS: <https://vyos.io/>
 - Asterisk: <https://www.asterisk.org/>

Some ideas

Matrix. a messaging system similar to Slack

- Server side:
 - Official web page: <https://matrix.org/>
 - Helm chart and instructions:
 - [Helm chart](#)
 - [Instructions \(a bit old, but useful\)](#)
- Client side:
 - <https://element.io/download>





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Thank You!

osm.etsi.org

osm.etsi.org/docs/user-guide

osm.etsi.org/wikipub