

# Deployment

## SMO deployment based on ONAP-Frankfurt-Release

☒ **OAM-47** - Create helm deployment for SMO DONE

This procedure provides:

- ONAP-DCAE
- ONAP-DMaaP
- ONAP-SDNC (single node, SMO functionality)

Limitations (wip):

- AAF: not yet supported
- ONAP-SDNC OOM deployment not yet on master branch.

Prerequisites:

- kubernetes cluster (1.13.5)
- helm installation (2.16.x)
- More details: setup cloud environment(openstack/kubernetes) <https://docs.onap.org/en/elalto/guides/onap-developer/settingup/index.html>

Setup

- clone oom repo from [gerrit.onap.org](http://gerrit.onap.org)
- fetch patchset for ONAP-SDNC

```
mkdir ~/workspace
cd ~/workspace
git clone -b frankfurt http://gerrit.onap.org/r/oom --recurse-submodules oom_smo
cd oom_smo
git fetch "https://gerrit.onap.org/r/oom" refs/changes/31/106331/6 && git checkout FETCH_HEAD
# HEAD is now at 275f7de9 [SDNC] oom for clustered disaggregated SDN-R
sudo cp -R ~/workspace/oom_smo/kubernetes/helm/plugins/ ~/.helm
```

- verify if local helm repo is available, otherwise follow intructions in onap setup

```
helm repo list
#NAME      URL
#stable    https://kubernetes-charts.storage.googleapis.com
#local     http://127.0.0.1:8879
```

- build local onap helm repo

```
cd ~/workspace/oom_smo/kubernetes
make all; make onap
# take a coffee
helm search onap
```

- create an overwrite yaml file, e.g. `deploy_smo_bronce.yaml`

```
cat ~/workspace/smo/deploy_smo_bronce.yaml
# Copyright © 2020 Amdocs, Bell Canada, highstreet technologies GmbH
#
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```

```
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```

```
#####
# This override file enables helm charts for all ONAP applications.
#####
```

```
global:
  aafEnabled: false
  masterPassword: Berlin1234!
cassandra:
  enabled: false
mariadb-galera:
  enabled: true
aaf:
  enabled: false
aai:
  enabled: false
appc:
  enabled: false
clamp:
  enabled: false
cli:
  enabled: false
consul:
  enabled: true
contrib:
  enabled: false
dcaegen2:
  enabled: true
dmaap:
  enabled: true
esr:
  enabled: false
log:
  enabled: false
sniro-emulator:
  enabled: false
oof:
  enabled: false
msb:
  enabled: true
multicloud:
  enabled: false
nbi:
  enabled: false
policy:
  enabled: false
pomba:
  enabled: false
portal:
  enabled: false
robot:
  enabled: false
sdc:
  enabled: false
sdnc:
  enabled: true
  replicaCount: 1
  config:
    sdnr:
      sdnrwt: true
      sdnronly: true
      sdnrmode: dm
      mountpointRegistrarEnabled: true
      mountpointStateProviderEnabled: true
  cds:
    enabled: false
dmaap-listener:
  enabled: false
ueb-listener:
```

```
    enabled: false
sdnc-portal:
  enabled: false
sdnc-ansible-server:
  enabled: false
dgbuilder:
  enabled: false
sdnc-web:
  enabled: false
so:
  enabled: false
ui:
  enabled: false
vfc:
  enabled: false
vid:
  enabled: false
vnfsdk:
  enabled: false
modeling:
  enabled: false
```

- deploy smd

```
helm -n dev-smd local/onap -f ~/workspace/smd/deploy_smd_bronze.yaml --namespace onap --timeout 900
```

- verify deployment

```
helm ls
```

- verify pnf-registration, fault notification use case, please find examples for sending VES message in [gerrit](#).