

Setup helm3 for oom

Please use for recent updates:

https://docs.onap.org/projects/onap-oom/en/latest/oom_user_guide.html

With H-Release helm3 is mandatory for oom based deployment.

This how to describes basic steps to run successfully

- 'make all; make onap'
- helm deploy ...

Step-by-step guide

1. Install helm3
2. Install push plugin
3. setup local chartmuseum
4. Install postgres
5. Install ONAP helm plugins

Install helm3

<https://helm.sh/docs/intro/install/>

```
export HELM_VERSION=v3.3.4 # Guilin
export HELM_VERSION=v3.5.2 # Honolulu
wget https://get.helm.sh/helm-$HELM_VERSION-linux-amd64.tar.gz
tar -zxvf helm-$HELM_VERSION-linux-amd64.tar.gz
sudo mv linux-amd64/helm /usr/local/bin/helm-$HELM_VERSION
sudo rm /usr/local/bin/helm
sudo ln -s /usr/local/bin/helm-$HELM_VERSION /usr/local/bin/helm
helm version
```

Install push plugin

<https://github.com/chartmuseum/helm-push>

```
helm plugin install https://github.com/chartmuseum/helm-push.git
```

Setup local chartmuseum

<https://github.com/helm/chartmuseum>

Example for installer:

```
curl https://raw.githubusercontent.com/helm/chartmuseum/main/scripts/get-chartmuseum | bash
mkdir ~/chartstorage
chartmuseum --debug --port=8080 \
  --storage="local" \
  --storage-local-rootdir=~/.chartstorage" &
helm repo add local http://localhost:8080
```

Example docker-compose:

```
version: '3.1'
services:
  chartmuseum:
    image: docker.io/bitnami/chartmuseum:0-debian-10
    ports:
      - '8080:8080'
    volumes:
      - chartmuseum_data:/bitnami/data
volumes:
  chartmuseum_data:
    driver_opts:
      type: none
      device: /var/lib/docker/chartmuseum
      o: bind
```

```
sudo mkdir /var/lib/docker/chartmuseum
sudo docker-compose up -d
helm repo add local http://localhost:8080
helm repo list
```

Install postgres

example for docker-compose:

docker-compose.yaml

```
version: '3.1'

services:
  db:
    image: postgres
    restart: always
    ports:
      - "5432:5432"
    env_file:
      - database.env # configure postgres
    volumes:
      - database-data:/var/lib/postgresql/data/ # persist data even if container shuts down
volumes:
  database-data:
    driver_opts:
      type: none
      device: /var/lib/docker/postgres
      o: bind
```

database.env

database.env

```
# database.env
POSTGRES_USER=helm
POSTGRES_PASSWORD=changeme
POSTGRES_DB=helm
```

```
sudo mkdir /var/lib/docker/postgres
sudo docker-compose up -d
export HELM_DRIVER=sql
export HELM_DRIVER_SQL_CONNECTION_STRING=postgresql://helm:changeme@localhost:5432/helm?sslmode=disable
```

Install ONAP Helm plugins

helm plugins

```
cd <oom_path>/oom
helm plugin install ./kubernetes/helm/plugins/undeploy
helm plugin install ./kubernetes/helm/plugins/deploy
helm plugin list
```

NAME	VERSION	DESCRIPTION
deploy	1.0.0	install (upgrade if release exists) parent charty and all subcharts as separate but related releases
push	0.9.0	Push chart package to ChartMuseum
undeploy	1.0.0	delete parent chart and subcharts that were deployed as separate releases

Deploy ONAP

as usual.

- namespace 'onap' must exist, otherwise helm ls will show up all deployments as 'failed'



Related articles

- [Deploy OOM and SDC \(or ONAP\) on a single VM with microk8s - Honolulu Setup](#)
- [Setup helm3 for oom](#)
- [DMaaP Edge Deployment](#)
- [Did You Know?](#)