

# K8S / helm basic commands for ONAP integration

## Frankfurt Notes

In addition to the mechanisms from EI Alto for deploy/undeploy the standard helm commands also work. For example in the case to upgrade a specific component like AAI without having to do a helm delete/heml deploy you can use the following:

Example with aai charts

Precondition:

```
helm deploy has previously been run with override files on the command line so that the .helm/plugins/deploy/cache has been populated  
git clone aai to an aai_oom directory since it is a recursive submodule of oom and upgrade using these newly cloned charts
```

Helm command:

```
helm upgrade -i onap-aai ./aai_oom --namespace onap --timeout 900 -f ${HOME}/.helm/plugins/deploy/cache/onap/global-overrides.yaml -f ${HOME}/.helm/plugins/deploy/cache/onap-subcharts/aai/subchart-overrides.yaml
```

## EI Alto Notes with new Deploy/Undeploy plugin from OOM Team

```
helm deploy dev local/onap -f /root/integration-override.yaml --namespace onap
```

For slower cloud environment use this to use longer interval for readiness

```
helm deploy dev local/onap -f /root/oom/kubernetes/onap/resources/environments/public-cloud.yaml -f /root/integration-override.yaml --namespace onap
```

Example per prodject with SO:

```
helm deploy dev-so local/onap -f /root/oom/kubernetes/onap/resources/environments/public-cloud.yaml -f /root/integration-override.yaml --namespace onap --verbose
```

If you are using the SNAPSHOT image override file:

```
helm deploy dev-sdnc local/onap -f /root/oom/kubernetes/onap/resources/environments/public-cloud.yaml -f /root/integration-override.yaml -f /root/integration/deployment/heat/onap-rke/staging-image-override.yaml --namespace onap --verbose
```

1. After editing a chart
  - a. cd /root/oom/kubernetes
  - b. make project
    - i. note that for cds/sdnc you need to do make cds; make sdnc
  - c. make onap
2. helm del project --purge
  - a. helm list -a to confirm its gone
  - b. also check pvc's for applications like sdnc/appc and kubectl -n onap delete pvc any remaining ones
    - i. kubectl -n onap get pv | grep project
    - ii. kubectl -n onap get pvc | grep project
    - iii. ...
    - iv. "delete /dockerdata-nfs/dev-project"
- c. Cleanup shared cassandra (aai, sdc) and shared mariadb (sdnc, so)
  - d. /root/integration/deployment/heat/onap-rke/cleanup.sh project(without dev-)
    - i. example: ./cleanup.sh sdc
    - ii. this script cleans up the shared cassandra and mariadb as well as pvc, pv, jobs etc.
    - iii. if you get an error when doing aai or sdc check to make sure cassandra cleaned up correctly. We have known problem where the cluster does not let schema's to be replicated and you get a Timeout back to cleanup.sh
3. Rebuild helm charts as necessary
  - a. cd /root/oom/kubernetes
  - b. make project
  - c. make onap
4. helm deploy dev local/onap -f /root/oom/kubernetes/onap/resources/environments/public-cloud.yaml -f /root/integration-override.yaml --namespace onap --verbose
5. list pods and ports (with k8 host)
  - a. kubectl -n onap get pods -o=wide
  - b. kubectl -n onap get services
6. Find out why pod is stuck in initializing or crash loopback
  - a. kubectl -n onap describe pod dev-blah-blah-blah

b. kubectl -n onap logs dev-blah-blah-blah

complete removal steps (same as Beijing)

### Faster method to do a delete for reinstall

kubectl delete namespace onap

kubectl delete pods -n onap --all

kubectl delete secrets -n onap --all

kubectl delete persistentvolumes -n onap --all

~~kubectl -n onap delete clusterrolebindings --all~~

helm del --purge dev

helm list -a

helm del --purge dev-[project] use this if helm list -a shows lingering releases in DELETED state

if you have pods stuck terminating for a long time

kubectl delete pod --grace-period=0 --force --namespace onap --all

CDS Specific Notes (**Dublin**) - In Dublin release, the CDS charts are added as a subchart in OOM. However, the deployment of CDS charts is achieved as part of the SDN-C deployment in Dublin release. Thus, if any changes required to be made in the CDS chart the following steps taking: "make cds; make sdnc ; make onap"

#### Merge "Tune OpenDaylight parameters"

[\[oom.git\]](#) / [kubernetes](#) /

```
drwxr-xr-x    ..
-rw-r--r--  902 LICENSE      blob | history | raw
-rw-r--r--  2007 Makefile     blob | history | raw
-rw-r--r--  3033 README.md   blob | history | raw
drwxr-xr-x    - aaf         tree | history
m-----    - aai         history
drwxr-xr-x    - appc        tree | history
drwxr-xr-x    - cds         tree | history
drwxr-xr-x    - clamp       tree | history
drwxr-xr-x    - cli         tree | history
drwxr-xr-x    - common      tree | history
drwxr-xr-x    - config      tree | history
```

#### [SDNC Values.yaml chart in OOM](#)

104 # dependency / sub-chart configuration

105 cds:

106 enabled: true

## Beijing Notes

```
kubectl config get-contexts
helm list
root@k8s:~# helm list
NAME  REVISION  UPDATED         STATUS        CHART      NAMESPACE
dev   2          Mon Apr 16 23:01:06 2018  FAILED      onap       onap
dev   9          Tue Apr 17 12:59:25 2018  DEPLOYED    onap-2.0.0  onap

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

#helm upgrade -i dev local/onap --namespace onap -f onap/resources/environments/integration.yaml
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml

# to upgrade robot
# a config upgrade should use the local/onap syntax to let K8 decide based on the parent chart (local/onap)
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml
# if docker container changes use the enable:false/true
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml --set robot.enabled=false
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml --set robot.enabled=true

# if both the config and the docker container changes use the enable:false, do the make component, make onap then enable:true
helm upgrade -i dev local/onap --namespace onap -f /root/integration-override.yaml --set robot.enabled=false
Confirm the assets are removed with get pods , get pv, get pvc, get secret, get configmap for those pieces you dont want to preserve
cd /root/oom/kubernetes
make robot
make onap
helm upgrade -i dev local/onap --namespace onap -f /root/integration-override.yaml --set robot.enabled=true
kubectl get pods --all-namespaces -o=wide

# to check status of a pod like robots pod
kubectl -n onap describe pod dev-robot-5cfdddf87fb-65zvv
pullPolicy: Always IfNotPresent option to allow us to

### Faster method to do a delete for reinstall

kubectl delete namespace onap
kubectl delete pods -n onap --all
kubectl delete secrets -n onap --all
kubectl delete persistentvolumes -n onap --all
kubectl -n onap delete clusterrolebindings --all
```

```
helm del --purge dev  
helm list -a  
helm del --purge dev-[project] use this if helm list -a shows lingering releases in DELETED state
```

if you have pods stuck terminating for a long time

```
kubectl delete pod --grace-period=0 --force --namespace onap --all
```

```
# of NAME=dev release  
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml
```

To test with a smaller ConfigMap try to disable some things like:

```
helm upgrade -i dev local/onap --namespace onap -f /root/integration-override.yaml --set log.enabled=false --set clamp.enabled=false --set pomba.enabled=false --set vnfsvc.enabled=false
```

(aaf is needed by a lot of modules in Casablanca but this is a near equivalent)

```
helm upgrade -i dev local/onap --namespace onap -f /root/integration-override.yaml --set log.enabled=false --set aaf.enabled=false --set pomba.enabled=false --set vnfsvc.enabled=false
```

**Note: setting log.enabled=false means that you will need to hunt down /var/log/onap logs on each docker container - instead of using the kibana search on the ELK stack deployed to port 30253 that consolidates all onap logs**

```
## Slower method to delete full deploy  
helm del dev --purge  
kubectl get pods --all-namespaces -o=wide  
# look for all Terminating to be gone and wait till they are  
kubectl -n onap get pvc  
# look for persistant volumes that have not been removed.  
kubectl -n onap delete pvc dev-sdnc-db-data-dev-sdnc-db-0  
# dev-sdnc is the name from the left of the get pvc command  
  
# same for pv (persistant volumes)  
kubectl -n onap get pv  
kubectl -n onap delete pv pvc-c0180abd-4251-11e8-b07c-02ee3a27e357  
  
#same for pv, pvc, secret, configmap, services  
kubectl get pods --all-namespaces -o=wide  
kubectl delete pod dev-sms-857f6dbd87-6lh9k -n onap (stuck terminating pod )  
  
# full install  
# of NAME=dev instance  
helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml  
  
# update vm_properties.py
```

```
# robot/resources/config/eteshare/vm_properties.py
# cd to oom/kubernetes

Remember: Do the enabled=false BEFORE doing the make onap so that the kubectl processing will use the old chart to delete the POD

#
# helm upgrade -i dev local/onap --namespace onap -f integration-override.yaml - this would just redeploy robot
# because its configMap only
```

Container debugging commands

```
kubectl -n onap logs pod/dev-sdnc-0 -c sdnc
```