We have installed helm and using helm we are generating Kubernetes yaml files . Without validating we cant deploy to production .

Whenever we generate chart using helm , after modifying all files we will run helm lint – it will validate our changes before we make changes to production .

```
List all helm chart . – helm list
replicaset.apps/mychart-helloworld-66745bbc69 1

      ubuntu@ip-172-31-47-135:~/helloworld$ helm list

      NAME
      NAMESPACE
      REVISION
      UPDATED
      STATUS

      mychart
      default
      1
      2023-04-08
      10:11:36.420431634
      +0000
      UTC
      deployed

                                                                                  APP VERSION
                                                                  helloworld-0.1.0
ubuntu@ip-172-31-47-135:~/helloworld$
Delete helm chart: helm delete chart_name
                                                  2023-04-00 10.11.3
ubuntu@ip-172-31-47-135:~/helloworld$ helm delete mychart
release "mychart" uninstalled
ubuntu@ip-172-31-47-135:~/helloworld$
Create helm chart
ubuntu@ip-172-31-47-135:~/helloworld$ helm create helmlint
Creating helmlint
ubuntu@ip-172-31-47-135:~/helloworld$ tree helmlint/
helmlint/
  Chart.yaml

    charts

    templates

       NOTES.txt
          helpers.tpl
        deployment.yaml
        hpa.yaml
        ingress.yaml

    service.yaml

          serviceaccount.yaml
          tests
          test-connection.yaml

    values.yaml

3 directories, 10 files
ubuntu@ip-172-31-47-135:~/helloworld$ ls
Chart.yaml charts helmlint templates values.yaml
ubuntu@ip-172-31-47-135:~/helloworld$ cd helmlint/
ubuntu@ip-172-31-47-135:~/helloworld/helmlint$ ls
Chart.yaml charts templates values.yaml
ubuntu@ip-172-31-47-135:~/helloworld/helmlint$
upuncueip-1/2-31-4/-133.~/neilowoilu/neimilincp cu ..
ubuntu@ip-172-31-47-135:~/helloworld$ helm lint helmlint/
==> Linting helmlint/
[INFO] Chart.yaml: icon is recommended
1 chart(s) linted, 0 chart(s) failed
ubuntu@ip-172-31-47-135:~/helloworld$
```

Change service from clusterip to nodeport in service.yaml Create release using helm .

```
ubuntu@ip-172-31-47-135:~/helmlint$ helm install myrelease .
NAME: myrelease
LAST DEPLOYED: Sat Apr 8 10:44:59 2023
NAMESPACE: default
STATUS: deployed
REVISION: 1
NOTES:
1. Get the application URL by running these commands:
1. Get the application URL by running these commands:
    export NODE_PORT=$(kubectl get --namespace default -o jsonpath="{.spec.ports[0].nodePort}" services myrelease-helmlint)
    export NODE_IP=$(kubectl get nodes --namespace default -o jsonpath="{.items[0].status.addresses[0].address}")
    echo http://$NODE_IP:$NODE_PORT
ubuntu@ip-172-31-47-135:~/helmlint$
ubuntu@ip-172-31-47-135:~/helmlint$ helm list -a
NAME NAMESPACE REVISION UPDATED
                                                                                                                                                      CHART
                                                                                                                               STATUS
                                                                                                                                                                             APP VERSION
myrelease
                                                                     2023-04-08 10:44:59.901154821 +0000 UTC deployed
                                                                                                                                                     helmlint-0.1.0 1.16.0
                       default
ubuntu@ip-172-31-47-135:~/helmlint$
```

Once we do port forwarding we can check nginx site also .

Lets make few mistake to test helmlint . Lets comment image in values.yaml

```
Now check lint.
```

We can see that helmlint is specifying that there are mistake in our values.yaml file.

```
Now undo changes and check using lint.

ubuntu@ip-172-31-47-135:~/helmlint$ vi values.yaml
ubuntu@ip-172-31-47-135:~/helmlint$ helm lint .

==> Linting .

[INFO] Chart.yaml: icon is recommended

1 chart(s) linted, 0 chart(s) failed
ubuntu@ip-172-31-47-135:~/helmlint$
```