

Helm charts Reference

References:

<https://docs.bitnami.com/tutorials/create-your-first-helm-chart/>

How to create helm chart?

helm create <Chart-name>

eg: helm create kube-charts => This create a chart folder call kubep-charts

Navigate to template/deployment.yaml file and make below changes

- containerport :8080

Navigate to values.yaml file and make below changes

- Update image:
repository: nagarajujavvaji/k8s-java
pullPolicy: IfNotPresent
Overrides the image tag whose default is the chart appVersion.
tag: 1.0.0
- Update the service as follows
service:
type: NodePort
port: 8080
targetPort: 8080
portname: http-k8s
- Update ingress to add route
ingress:
http:
- match:
- uri:
prefix: /

Save all the charts and Dry run the charts with below helm command

- helm template dryrun --debug ./kube-charts

Install the charts with the below helm command

- helm install <Some Name> <Charts folder>
- Example: helm install k8s-dev ./kube-charts
- You will see the instructions to follow

```
nagaraju javvaji@MacBook-Pro k8s-java % helm install k8s-dev ./kube-charts
NAME: k8s-dev
LAST DEPLOYED: Sat Jul 11 23:44:07 2020
NAMESPACE: default
STATUS: deployed
REVISION: 1
NOTES:
1. Get the application URL by running these commands:
  export NODE_PORT=$(kubectl get --namespace default -o jsonpath="{.spec.ports[0].nodePort}" services k8s-dev-kube-charts)
  export NODE_IP=$(kubectl get nodes --namespace default -o jsonpath="{.items[0].status.addresses[0].address}")
  echo http://$NODE_IP:$NODE_PORT
```

- You can also find the services with: `minikube service list`

```
nagaraju javvaji@MacBook-Pro k8s-java % minikube service list
```

NAMESPACE	NAME	TARGET PORT	URL
default	ajcloud-mychart	http/8080	http://192.168.99.100:32503
default	k8s-dev-kube-charts	http/8080	http://192.168.99.100:31576
default	kubernetes	No node port	
kube-system	kube-dns	No node port	

- `helm list` -> It display charts
- `helm delete <chart name>` => delete charts
- `Minikube delete service <service name>` -> delete service