**Helm Chart Repository hosting options**

1. google compute cloud bucket

2. AWS S3 bucket

3. Github pages

4. webserver (chartmuseum)

**Chartmuseum Installation Steps**

* Create dir - chartmuseum
* Download Chartmuseum(https://chartmuseum.com/docs/#installation)

curl -LO <https://s3.amazonaws.com/chartmuseum/release/latest/bin/linux/amd64/chartmuseum>

* Give the execute permission

chmod +x ./chartmuseum

mv ./chartmuseum /usr/local/bin

* Install chartMuseum-webserver

[root@comlnx91 ~] # chartmuseum --debug --port=8080 --storage="local" --storage-local-rootdir="./chartstorage"

**Chartmuseum Installation Steps using Docker image**

* Run below command to start the docker chartmuseum container

docker run --rm -it \

-p 8080:8080 \

-e DEBUG=0 \

-e STORAGE=local \

-e STORAGE\_LOCAL\_ROOTDIR=/charts \

-v $(pwd)/charts:/charts \

chartmuseum/chartmuseum:latest

* Inside /charts directory all the chart packages will be created once it is pushed to repo.

**Add Chartmuseum Repository Steps**

* Create Repo

helm repo add mychartmuseumrepo http://10.190.67.115:8080

* List Repo –

helm repo list

NAME URL

mychartmuseumrepo <http://10.190.67.115:8080>

**Add Chart To Repo Using Curl (Mathod 1)**

* Go to chart directory
* Update Chart.yaml file with description and version which is used to maintain the version
* Create a package of chart directory

helm package mychart/

* Package will be created

[root@comlnx91 helm\_demo]# ls

mychart mychart-0.1.0.tgz

* Add package to the repo

curl --data-binary "@mychart-0.1.0.tgz" <http://10.190.67.115:8080/api/charts>

**Add Chart To Repo Using helm-push plugin (Mathod 2)**

* Install helm plugin

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

Downloading and installing helm-push v0.8.1 ...

https://github.com/chartmuseum/helm-push/releases/download/v0.8.1/helm-push\_0.8.1\_linux\_amd64.tar.gz

Installed plugin: push

* Push the package to repo

[root@comlnx91 helm\_demo]# helm push helmpushdemo/ mychartmuseumrepo

Pushing helmpushdemo-0.1.0.tgz to mychartmuseumrepo...

Done.

**Update Repo**

* Run update command to reflect the newly created chart

helm repo update

**Check charts inside Repo**

* Verify chart has been available inside repo

[root@comlnx91 helm\_demo]# helm search repo mychartmuseumrepo

NAME CHART VERSION APP VERSION DESCRIPTION

mychartmuseumrepo/helmpushdemo 0.1.0 1.16.0 Helm Push Plugin Demo

mychartmuseumrepo/mychart 0.1.1 1.16.0 Repo Demo in Helm …..

**Maintain Chart Version**

* Update chart version into chart.yaml
* Create package
* Add new package to the repo
* Verify the newly added charts

[root@comlnx91 chartstorage]# helm search repo -l mychartmuseumrepo

NAME CHART VERSION APP VERSION DESCRIPTION

mychartmuseumrepo/mychart 0.1.1 1.16.0 Repo Demo in Helm using Chartmuseum updated fro...

mychartmuseumrepo/mychart 0.1.0 1.16.0 Repo Demo in Helm usinfgChartmuseum

**Step To Install Helm chart directly from Chartmuseusm repository**

* Search for the chart

[root@comlnx91 helm\_demo]# helm search repo mychartmuseumrepo

NAME CHART VERSION APP VERSION DESCRIPTION

mychartmuseumrepo/mychart 0.1.1 1.16.0 Repo Demo in Helm using…

* Install chart by giving the name

helm install db2exporter-helmchart mychartmuseumrepo/mychart

NAME: db2exporter-helmchart

LAST DEPLOYED: Wed Jun 24 05:06:58 2020

NAMESPACE: commerce

STATUS: deployed

REVISION: 1

TEST SUITE: None

* List the deployed charts

[root@comlnx91 chartstorage]# helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

db2exporter-helmchart commerce 1 2020-06-24 05:06:58.8213705 -0400 EDT deployed mychart-0.1.1 1.16.0