Create Helm package

1. Create a separate chartpackages folder and create a helm package and store it in this folder:

Helm package . -d ../chartpackages/

It will in form of .tgz and it will take chart name and version from Chart.yaml

1. Just unpack the package and check it.

Chart Repository

1. Create a new git repository like helmchartrepository.

git config credential.helper store

git push [<repository>](https://github.com/jagdishmodi/gitops-repo.git)

1. Go to settings and click on pages and create Github pages :

A screenshot of a chat

Description automatically generated

1. We can upload multiple packages on the same chart repository and we need to indexing of packages in index.yaml
2. Before creating index.yaml file, push chart package inside helm repository.
3. To create index.yaml file, run below command to save index.yaml file in chartrepository:

Helm repo index –url [**https://trainer-1985.github.io/helmchartrepository/**](https://trainer-1985.github.io/helmchartrepository/) .

1. Push packages and index.yaml file in helmchartrepository git repository
2. To check repo lists , run : helm repo list
3. To add chart repository, run below command:

Helm repo add mychartrepo **[h](https://jagdishmodi.github.io/helmchartrepository/)**[**[https://trainer-1985.github.io/helmchartrepository/](https://jagdishmodi.github.io/helmchartrepository/)**](https://trainer-1985.github.io/helmchartrepository/)

1. Once chart repository is added to local repo, you can search charts in the repository:

Helm search repo firstchart

root@helm:/home/trainer/helm-chart/chartpackages# helm search repo

NAME CHART VERSION APP VERSION DESCRIPTION

mychartrepo/firstchart 0.1.1 1.16.0 A Helm chart for Kubernetes

mychartrepo/secondchart 0.1.0 1.16.0 A Helm chart for Kubernetes

root@helm:/home/trainer/helm-chart/chartpackages# helm search repo mychartrepo/firstchart

NAME CHART VERSION APP VERSION DESCRIPTION

mychartrepo/firstchart 0.1.1 1.16.0 A Helm chart for Kubernetes

root@helm:/home/trainer/helm-chart/chartpackages#

1. We can create more packages and move to chart repositories.

Change version and replica in chart files and create new package.

Reindex the index.yaml file with Helm repo index –url [**https://jagdishmodi.github.io/helmchartrepository/**](https://jagdishmodi.github.io/helmchartrepository/) .

Once its reindexed, push it to git repository