Publishing Helm Charts

The DevOps team wants to

- a. Package the helm charts to an archive
- b. Create a repository in GitHub Pages
- c. Publish the helm charts to ArtifactHub

Learning Outcomes

After completing the lab, you will be able to understand

- Packaging helm chart
- Publishing to helm chart repository
- Difference between archives and repositories
- Different types of Helm repositories

Setting up GitHub Pages for storing Helm Charts

- 1. Create a new public repository in github with naming convention for the repo being yourgituserid.github.io
- 2. Create a new directory on your local machine pointing to the github repo



Replace yourgituserid with your github user name or id. This is not the same as your email address.

3. Copy the pages directory inside helm-charts to directory created in the above step

```
cp ~/workspace/helm-charts/pages ~/workspace/yourgituserid.github.io
cd ~/workspace/yourgituserid.github.io
```

4. Delete index.yaml and any compressed files, if you already have it

```
rm index.yaml
rm *.tgz
```

Package the helm charts to be published

1. Package the pages umbrella chart and create index file

```
helm package pages
helm repo index .
cat index.yaml
```

Publishing to ArtifactHub through Github Pages

- 1. You will need the Github Pages URL which acts as a server for the helm charts to be accessed from artifacthub
- 2. Go to github repo and select settings menu and then the Pages menu from the left navigation menu. You will see the message similar to GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. Change the branch from None to master and click on Save. This will render the content using GitHub Pages. You will get the message similar to `Your site is ready to be published at https://yourgithubuserid.github.io/
- 3. We now have to edit the index.yaml file and update the url to point to the published url. Ensure that it uses https instead of https
- 4. Push the changes to Git so that ArtifactHub can access it

```
git add .
git commit -m "Initial Commit"
git push -u origin master
```

- 5. Go to artifacthub.io and login using your github credentials.
- 6. Click on Add a repository and fill in the kind, name, displayname, url properties Let the Kind be Helm Charts, Name & Display Name be pages and the URL should be your published Github Pages URL similar to https://yourgithubuserid.github.io

Accessing/Installing the published charts from ArtifactHub

1. Configure Helm to use ArtifactHub repository



4. Test the pages application by performing CRUD operations using curl/postman. Refer Pages Curl Guide for testing.