

- In the **root** of the repository (*not* under `clusters`) run the following commands:

```
mkdir charts
cd charts
helm create nginx
```

- Modify the `nginx/values.yaml` file as follows:

```
ingress:
  enabled: true # changed
  className: "nginx" # changed
  annotations: {}
    # kubernetes.io/ingress.class: nginx
    # kubernetes.io/tls-acme: "true"
  hosts:
    - host: "" # changed
      paths:
        - path: /
          pathType: ImplementationSpecific
```

- Create a Helm Release resource file in `clusters/my-clusters` path. The filename could be `nginx-helm-release.yaml`. The contents are as follows:

```
apiVersion: helm.toolkit.fluxcd.io/v2beta1
kind: HelmRelease
metadata:
  name: nginx
  namespace: default
spec:
  interval: 1m
  chart:
    spec:
      chart: ./charts/nginx
      sourceRef:
        kind: GitRepository
        name: flux-system
        namespace: flux-system
```

```
interval: 1m
```

- Commit the changes to Git by running the following commands:

```
git checkout -b nginx-helm
git add -A
git commit -m "Adding the Nginx Helm chart and creating the Flux CD
Helm Release resource"
git push --set-upstream origin nginx-helm
```

- Copy the MR link, open the browser, paste the link, merge the MR and return back to the terminal.
- Force Flux CD to do a reconciliation by running the following command:

```
flux reconcile kustomization flux-system --with-source
```

- Observe the Helm Release resource and the pods:

```
kubectl get helmrelease
kubectl get pods
```