- Go to the main branch and pull the changes then create a new branch for our changes:

```
git checkout main
git pull
git checkout -b "custom-welcome-page"
```

- In the chart templates directory, create a new `configmap.yaml` file and add the following:

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: {{ .Release.Name }}-index-html
data:
  index.html: |
    {{ .Values.indexHtml | nindent 4 }}
```

- Modify the `deployment.yaml` template so that it is as follows:

```yaml
    containers:
      - name: {{ .Chart.Name }}
        securityContext:
          {{- toYaml .Values.securityContext | nindent 12 }}
        image: "{{ .Values.image.repository }}:{{
.Values.image.tag | default .Chart.AppVersion }}"
        imagePullPolicy: {{ .Values.image.pullPolicy }}
        ports:
          - name: http
            containerPort: {{ .Values.service.port }}
            protocol: TCP
# Add this part
        volumeMounts:
          - name: html
            mountPath: /usr/share/nginx/html
    volumes:
      - name: html
```

```
      configMap:
        name: {{ .Release.Name }}-index-html
# Till here
```

- Modify the `Chart.yaml` file to look like the following:

```
version: 0.1.2
```

- Open the Helm Release file and modify it to be as follows:

```yaml
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
# Add the following (same indentation level as the chart)
  values:
    indexHtml: |-
      <!doctype html>
        <html>
        <head>
          <title>My Custom Page</title>
        </head>
        <body>
          <h1>Welcome to my custom Nginx page!</h1>
        </body>
        </html>
```

- Commit and push all the changes to GitLab:

```
git add -A
git commit -m "Changes the default index.html page of Nginx"
git push --set-upstream origin custom-welcome-page
```

- Copy the MR link to the browser, approve and merge it.
- Run the Flux reconciliation commands:

```
flux reconcile kustomization flux-system --with-source
flux reconcile helmrelease nginx -n default
```

- Go to the webpage where the Nginx welcome page was displayed and refresh the page.