chart.yaml

```yaml
apiVersion: v2
name: simple-web-app
description: A simple Helm chart for deploying a web app (Nginx)
version: 0.1.0
appVersion: "1.0"
```

"chart.yaml" 6L, 135B

values.yaml

```yaml
replicaCount: 1

image:
  repository: nginx
  pullPolicy: IfNotPresent
  tag: "latest"

service:
  type: ClusterIP
  port: 80
```

"values.yaml" 11L, 127B

Deployment.yaml

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: {{ include "simple-web-app.fullname" . }}
  labels:
    {{- include "simple-web-app.labels" . | nindent 4 }}
spec:
  replicas: {{ .Values.replicaCount }}
  selector:
    matchLabels:
      app: {{ include "simple-web-app.name" . }}
  template:
    metadata:
      labels:
        app: {{ include "simple-web-app.name" . }}
    spec:
      containers:
        - name: nginx
          image: "{{ .Values.image.repository }}:{{ .Values.image.tag }}"
          ports:
            - name: http
              containerPort: 80
```

"deployment.yaml" 23L, 577B

Service.yaml

```yaml
apiVersion: v1
kind: Service
metadata:
  name: {{ include "simple-web-app.fullname" . }}
spec:
  selector:
    app: {{ include "simple-web-app.name" . }}
  ports:
    - port: {{ .Values.service.port }}
      targetPort: http
      protocol: TCP
  type: {{ .Values.service.type }}
```

"service.yaml" 13L, 281B
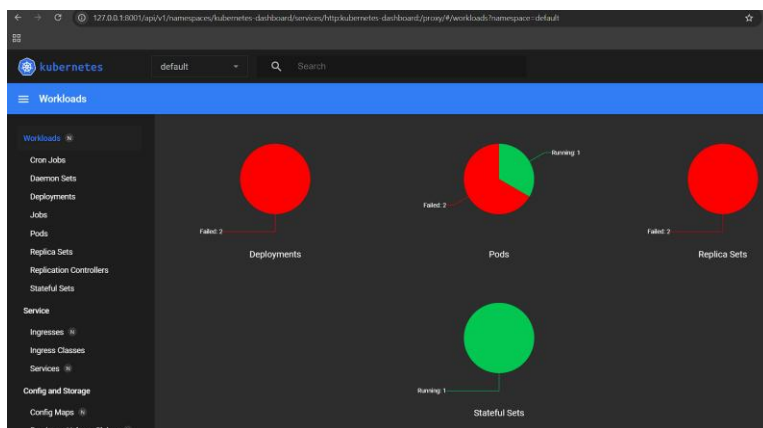
touch helm-install.sh

```bash
#!/bin/bash

# Add Helm repos if needed
helm repo add bitnami https://charts.bitnami.com/bitnami
helm repo update

# Install the Helm chart
helm install simple-web-app ./simple-web-app -f ./simple-web-app/values.yaml
```

"helm-install.sh" 9L, 218B

My output looks likes this:

My Nginx server is created.

Pod details

Replica sets

Stateful sets