

chart.yaml

[illegible]

## values.yaml

```

ubuntu@ip-172-31-47-201: ~$ kubectl apply -f values.yaml
replicareplicas: 1

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

service:
  type: ClusterIP
  port: 80

```

## Deployment.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

```
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

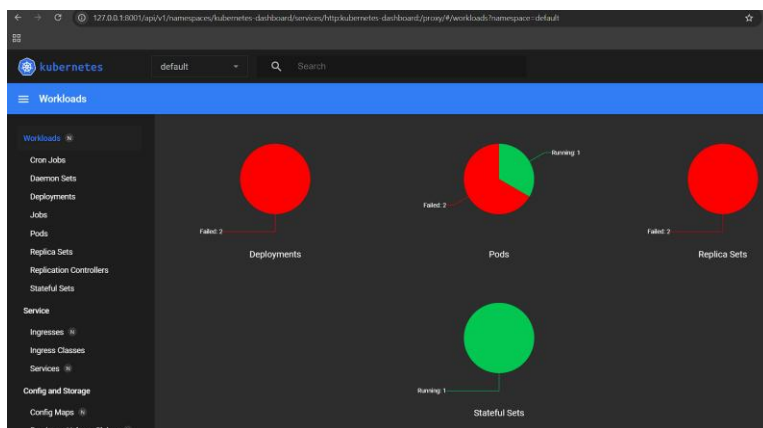
```
#!/bin/bash

# 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.

A screenshot of the Kubernetes dashboard's 'Deployments' list. The table shows two deployments: 'simple-web-app' and 'my-wordpress'. The 'simple-web-app' deployment is using the 'nginx:1.16.0' image and has 0 pods running out of 1. The 'my-wordpress' deployment is using the 'docker.io/bitnami/wordpress:6.8.0-debian-12-r0' image and has 0 pods running out of 1. The table includes columns for Name, Images, Labels, Pods, and Created time.

Name	Images	Labels	Pods	Created
simple-web-app	nginx:1.16.0	app.kubernetes.io/instance: simple-web-app app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: simple-web-app	0 / 1	16 minutes ago
my-wordpress	docker.io/bitnami/wordpress:6.8.0-debian-12-r0	app.kubernetes.io/instance: my-wordpress app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: wordpress	0 / 1	42 minutes ago

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Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (Bytes)	Created
simple-web-app-897f56856-8rcf1	nginx:1.16.0	app.kubernetes.io/instance: simple-web-app app.kubernetes.io/managed-by: Helm	minikube	ImagePullBa	0	-	-	18 minutes ago
Show all								
my-wordpress-8bcf4c7fc-2s2q4	docker.io/bitnami/wordpress:6.8.0-debian-12-r0	app.kubernetes.io/instance: my-wordpress app.kubernetes.io/managed-by: Helm	minikube	Init: ImagePullBa	0	-	-	44 minutes ago
Show all								
my-wordpress-mariadb-0	docker.io/bitnami/mariadb:11.4.5-debian-12-r9	app.kubernetes.io/component: primary app.kubernetes.io/instance: my-wordpress	minikube	Running	0	-	-	44 minutes ago

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Name	Images	Labels	Pods	Created
simple-web-app-897f56856	nginx:1.16.0	app.kubernetes.io/instance: simple-web-app app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: simple-web-app	0 / 1	19 minutes ago
Show all				
my-wordpress-8bcf4c7fc	docker.io/bitnami/wordpress:6.8.0-debian-12-r0	app.kubernetes.io/instance: my-wordpress app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: wordpress	0 / 1	45 minutes ago
Show all				

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simple-web-app-897f56856	nginx:1.16.0	app.kubernetes.io/instance: simple-web-app app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: simple-web-app	0 / 1	19 minutes ago
Show all				
my-wordpress-8bcf4c7fc	docker.io/bitnami/wordpress:6.8.0-debian-12-r0	app.kubernetes.io/instance: my-wordpress app.kubernetes.io/managed-by: Helm app.kubernetes.io/name: wordpress	0 / 1	45 minutes ago
Show all				

Stateful Sets

Name	Images	Labels	Pods	Created
my-wordpress-mariadb	docker.io/bitnami/mariadb:11.4.5-debian-12-r9	app.kubernetes.io/component: primary app.kubernetes.io/instance: my-wordpress app.kubernetes.io/managed-by: Helm	1 / 1	45 minutes ago
Show all				