

# Sessão 06: Aula 01 - Manifestos

Criar o chart

```
helm create meusite
```

Removendo arquivos

```
rm -rf meusite/templates/*
```

deployment.yaml

```
kind: Deployment
apiVersion: apps/v1
metadata:
  name: meusite
  namespace: default
  labels:
    app: meusite
spec:
  replicas: 2
  selector:
    matchLabels:
      app: meusite
  template:
    metadata:
      name: meusite
      labels:
        app: meusite
    spec:
      containers:
      - name: meusite
        image: hashicorp/http-echo
        args:
          - "-text=banana"
        livenessProbe:
          httpGet:
            path: /
            port: http
          initialDelaySeconds: 5
          periodSeconds: 10
          failureThreshold: 3
        readinessProbe:
          httpGet:
            path: /
            port: http
          initialDelaySeconds: 5
          periodSeconds: 10
          successThreshold: 3
```

```
    failureThreshold: 3
  ports:
    - name: http
      containerPort: 5678
  resources:
    limits:
      cpu: 250m
      memory: 32Mi
```

---

## hpa.yaml

```
apiVersion: autoscaling/v1
kind: HorizontalPodAutoscaler
metadata:
  name: meusite
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: meusite
  minReplicas: 1
  maxReplicas: 10
  targetCPUUtilizationPercentage: 50
```

---

## ingress.yaml

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: meusite
  namespace: default
  labels:
    app: meusite
  annotations:
    kubernetes.io/ingress.class: "nginx"
    ingress.kubernetes.io/rewrite-target: /
spec:
  rules:
    - http:
        paths:
          - path: /meusite
            pathType: Prefix
            backend:
              service:
                name: meusite
                port:
                  number: 5678
```

---

## service.yml

```
apiVersion: v1
kind: Service
metadata:
  name: meusite
  namespace: default
  labels:
    app: meusite
spec:
  type: ClusterIP
  ports:
    - name: http
      targetPort: 5678
      port: 5678
  selector:
    app: meusite
```

---

## Aplicar manifestos

```
kubectl apply -f meusite/templates
```

## Verificando recursos criados

```
kubectl get all
```

## Teste de acesso na aplicação

```
curl -kL http://127.0.0.1:30000/meusite
```

## Deletar manifestos

```
kubectl delete -f meusite/templates
```