

Simple Helm

Empty values.yml

```
jenkins/.
├── Chart.yaml
├── templates
│   ├── deployment-jenkins.yml
│   ├── pv-jenkins.yml
│   ├── pvc-jenkins.yml
│   └── svc-jenkins.yml
└── values.yml
```

## **pv-jenkins.yml**

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: local-pv
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  storageClassName: manual
  hostPath:
    path: /mnt/data
```

## **pvc-jenkins.yml**

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: jenkins-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
  storageClassName: manual
```

## **svc-jenkins.yml**

```
apiVersion: v1
kind: Service
metadata:
  name: jenkins-service
spec:
  type: NodePort
  selector:
    app: jenkins-set
  ports:
    - port: 8080
      targetPort: 8080
      nodePort: 30077
```

## **deployment-jenkins.yml**

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: jenkins-deployment
  labels:
    app: jenkins-set
spec:
  replicas: 2
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 2
      maxUnavailable: 0
  selector:
    matchLabels:
      app: jenkins-set
  template:
    metadata:
      labels:
        app: jenkins-set
    spec:
      volumes:
        - name: local-volume
          persistentVolumeClaim:
```

```
    claimName: jenkins-pvc
containers:
  - name: jenkins
    image: jenkins/jenkins:latest
    ports:
      - containerPort: 8080
    volumeMounts:
      - name: local-volume
        mountPath: /var/jenkins_home
```

## Commands

```
helm install my-jenkins /jenkins -n my-jenkins --create-namespace
```

```
helm upgrade my-jenkins ./ -n my-jenkins --set replicas=3
```

```
kubectrl get all -n my-jenkins
```

```
helm uninstall my-jenkins -n my-jenkins
```

```
helm ls -A
```