## Dockerfile

FROM python:3.10-slim  
WORKDIR /app  
COPY requirements.txt .  
RUN pip install -r requirements.txt  
COPY . .  
CMD ["python", "app.py"]

## Jenkinsfile

pipeline {  
 agent any  
 stages {  
 stage('Build') {  
 steps {  
 sh 'docker build -t myapp:latest .'  
 }  
 }  
 stage('Push') {  
 steps {  
 sh 'docker push myapp:latest'  
 }  
 }  
 stage('Deploy') {  
 steps {  
 sh 'helm upgrade --install myapp ./helm-chart'  
 }  
 }  
 }  
}

## Helm values.yaml

replicaCount: 2  
image:  
 repository: mydockerhub/myapp  
 tag: latest  
 pullPolicy: IfNotPresent  
service:  
 type: ClusterIP  
 port: 80

## Terraform main.tf

provider "aws" {  
 region = "us-west-2"  
}  
  
module "eks" {  
 source = "terraform-aws-modules/eks/aws"  
 cluster\_name = "helm-k8s-cluster"  
 subnets = ["subnet-12345678", "subnet-87654321"]  
 vpc\_id = "vpc-12345678"  
}