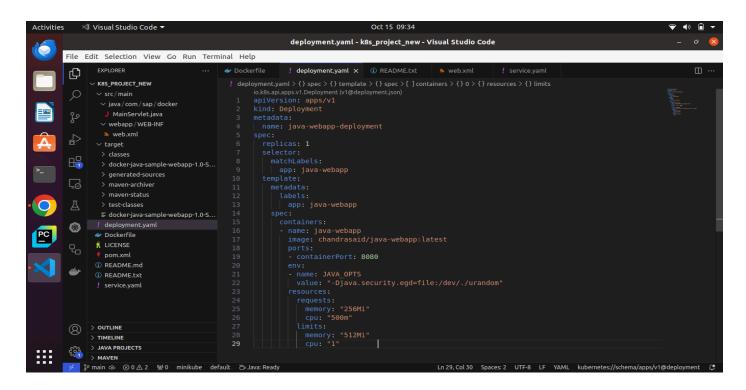
## TAS 263 - Chandra Sai D

# **Deploying a Java Web Application on Kubernetes**

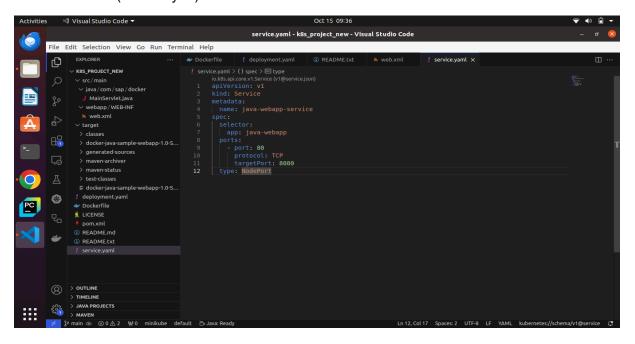
# **Steps to Deploy the Service**

Step 1: Create YAML Files for the Service

1.1 Deployment YAML (deployment.yml)



1.2 Service YAML (service.yml)

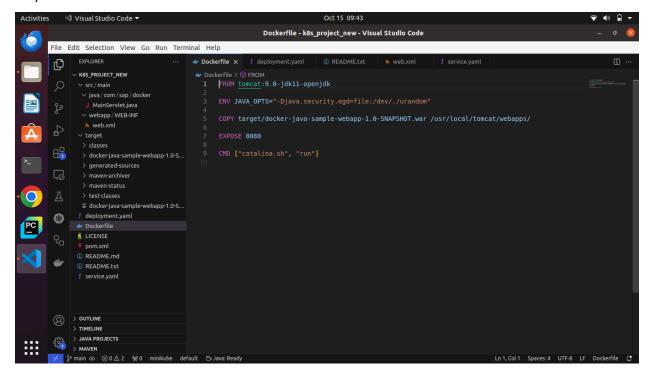


## Step 2: Create JAR/WAR for the Service

Build the WAR File:

#### \$ mvn clean package

Step 3: Create a Dockerfile



# Step 4: Build the Docker Image

\$ docker build -t chandrasaid/my-java-webapp:latest .

Step 5: Deploy the Application in Kubernetes

5.1 Start Minikube

\$ minikube start

5.2 Deploy the Application

\$ kubectl apply -f deployment.yml

\$ kubectl apply -f service.yml

Check the status of your pods:

\$ kubectl get pods

## Step 6: Access the Application

To access the application, you can use the minikube service command:

# \$ minikube service my-webapp --url

Step 7: It is designed to demonstrate how to deploy a Java web application on a Tomcat server using Kubernetes.

The application greets users by their name, which can be passed as a parameter in the URL. To use this application, access it via the following URL format:

\$ http://192.168.39.125:30160/docker-java-sample-webapp-1.0-SNAPSHOT/?name=Your\_Name

Replace `Your\_Name` with your actual name to see a personalized greeting.

# Example:

For instance, if you want to greet 'Chandra', use the following URL:

http://192.168.39.125:30160/docker-java-sample-webapp-1.0-SNAPSHOT/?name=Chandra This will display the message:

`Hello, Chandra Welcome to our application!`

