deployment of tomcat with student.war inside dev namespace

* install and start docker
* vim dockerfile

FROM amazonlinux

# Install dependencies

RUN yum update -y && yum install java-11-amazon-corretto -y && yum install unzip -y && yum install git -y

RUN yum install maven -y

# Download and install Tomcat

RUN curl -O https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.95/bin/apache-tomcat-9.0.95.zip

RUN unzip apache-tomcat-9.0.95.zip

RUN mv apache-tomcat-9.0.95 /opt/tomcat

RUN chmod +x /opt/tomcat/bin/catalina.sh

# Change Tomcat's default port from 8080 to 80

RUN sed -i 's/port="8080"/port="80"/g' /opt/tomcat/conf/server.xml

# Clone the repository and build the project

RUN git clone https://github.com/Pritam-Khergade/student-ui.git

WORKDIR /student-ui

RUN mvn clean package

# Deploy the WAR to Tomcat

RUN mv target/\*.war /opt/tomcat/webapps/student.war

# Expose port 80

EXPOSE 80

# Run Tomcat

CMD ["/opt/tomcat/bin/catalina.sh", "run"]

* sudo docker run -t remote .
* sudo docker run -d -P remote
* sudo docker images
* sudo docker ps
* sudo docker exec -it container-id curl localhost
* commands to push image in docker hub
* sudo docker tag remote username/reponame:latest
* sudo docker login
* sudo docker push username/reponame:latest
* vim deployment.yaml

apiVersion: apps/v1

kind: Deployment

metadata:

name: tomcat

labels:

app: tomcat

spec:

replicas: 2

selector:

matchLabels:

app: tomcat

template:

metadata:

labels:

app: tomcat

spec:

containers:

- name: wind

image: anuj210/dock-repo:latest

ports:

- containerPort: 80

* kubectl apply -f deployment.yaml
* kubectl get pods
* vim svc-NodePort.yaml file
* apiVersion: v1

kind: Service

metadata:

name: tomcat-service

labels:

app: tomcat

spec:

type: NodePort

ports:

- port: 80

targetPort: 80

nodePort: 30007

selector:

app: tomcat

* kubectl apply -f svc-NodePort.yaml
* hit ip and give port num 30007 SG



