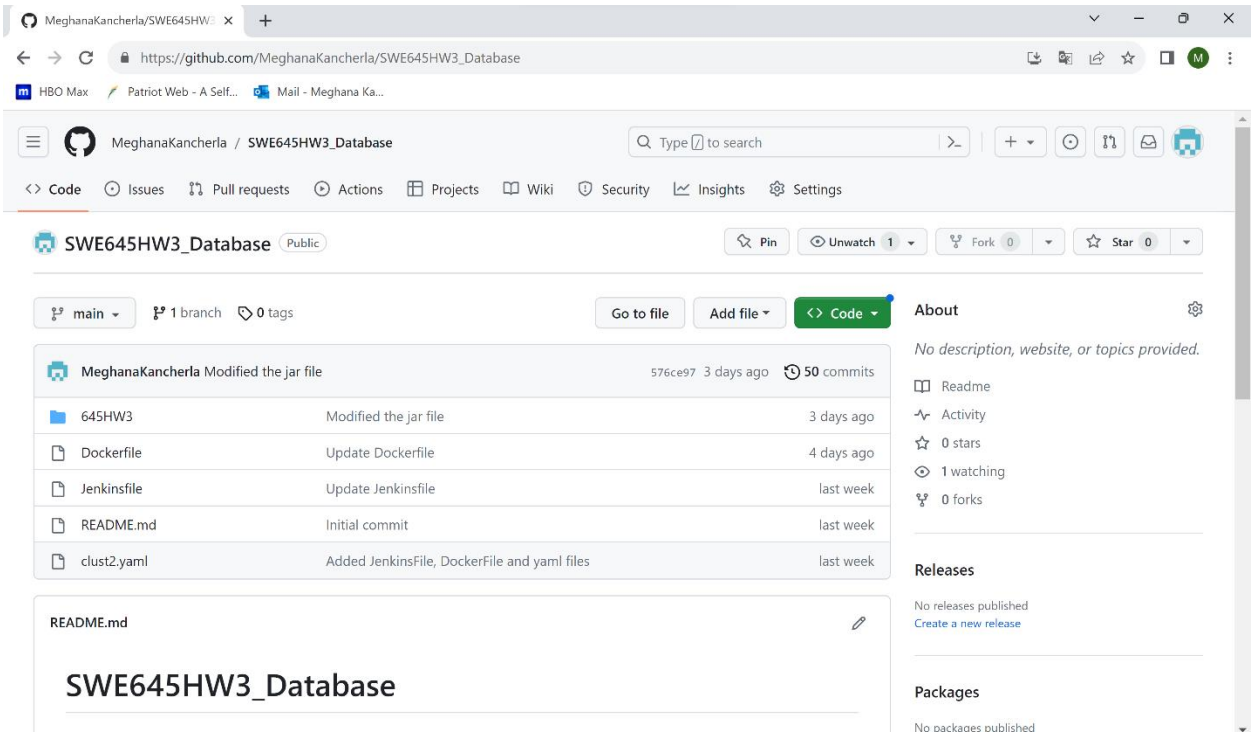
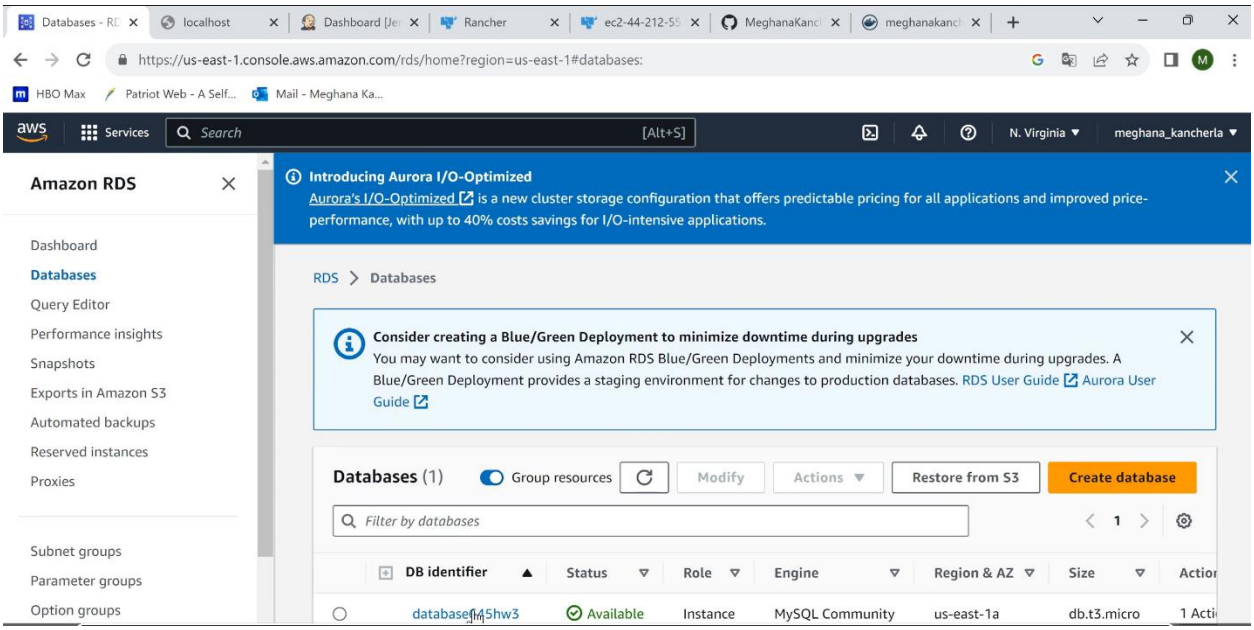
Screenshots of the SWE 645 – Assignment3

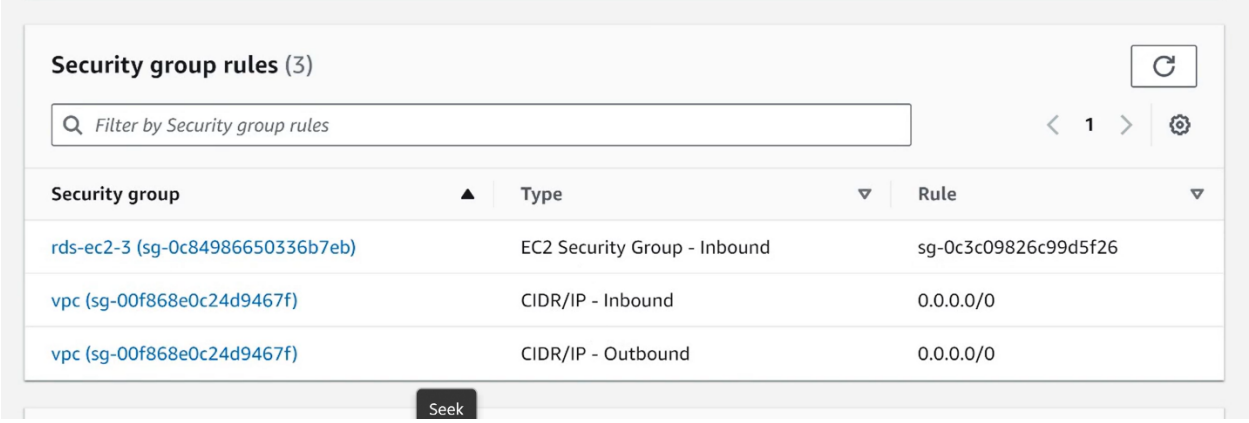
1. Git hub repository:



2. AWS RDS:



3. RDS Security rules:



Security group rules (3)

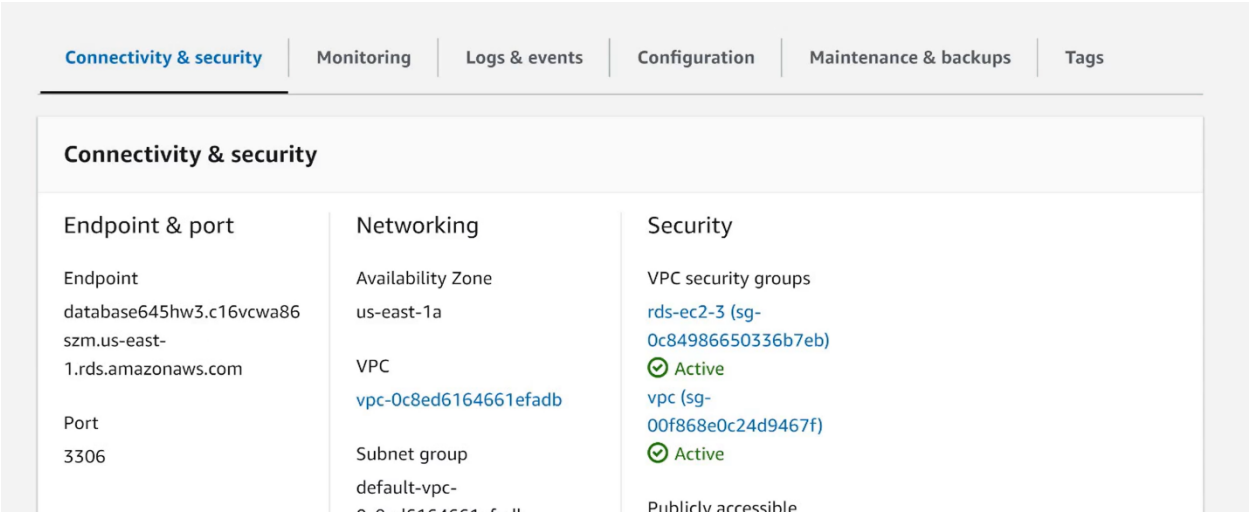
Filter by Security group rules

1

Security group	Type	Rule
rds-ec2-3 (sg-0c84986650336b7eb)	EC2 Security Group - Inbound	sg-0c3c09826c99d5f26
vpc (sg-00f868e0c24d9467f)	CIDR/IP - Inbound	0.0.0.0/0
vpc (sg-00f868e0c24d9467f)	CIDR/IP - Outbound	0.0.0.0/0

Seek

4. RDS endpoint for connecting Database:



Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags

Connectivity & security

Endpoint & port

Endpoint
database645hw3.c16vcwa86szm.us-east-1.rds.amazonaws.com

Port
3306

Networking

Availability Zone
us-east-1a

VPC
vpc-0c8ed6164661efadb

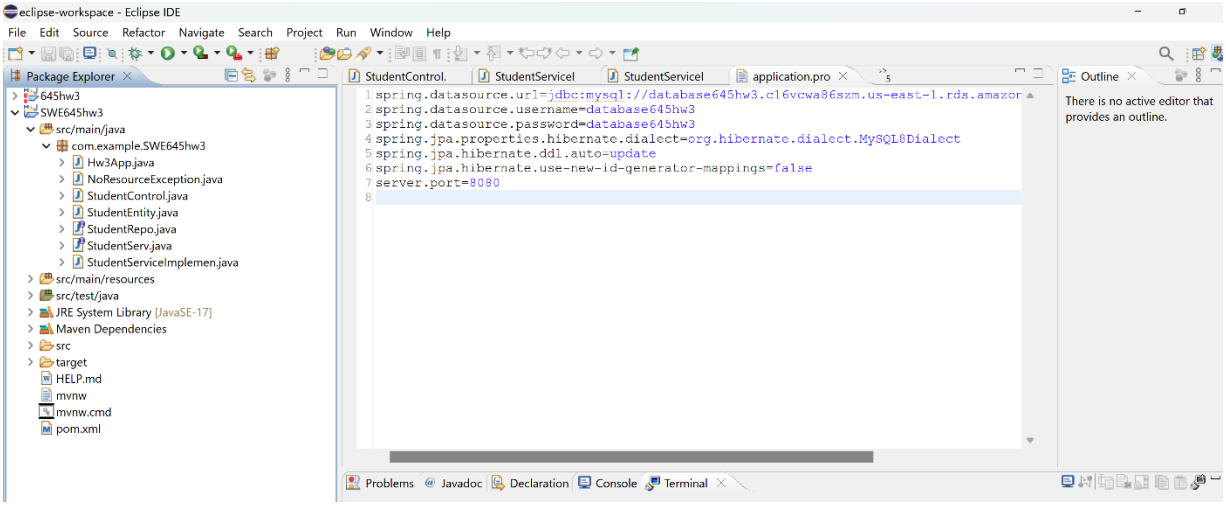
Subnet group
default-vpc-

Security

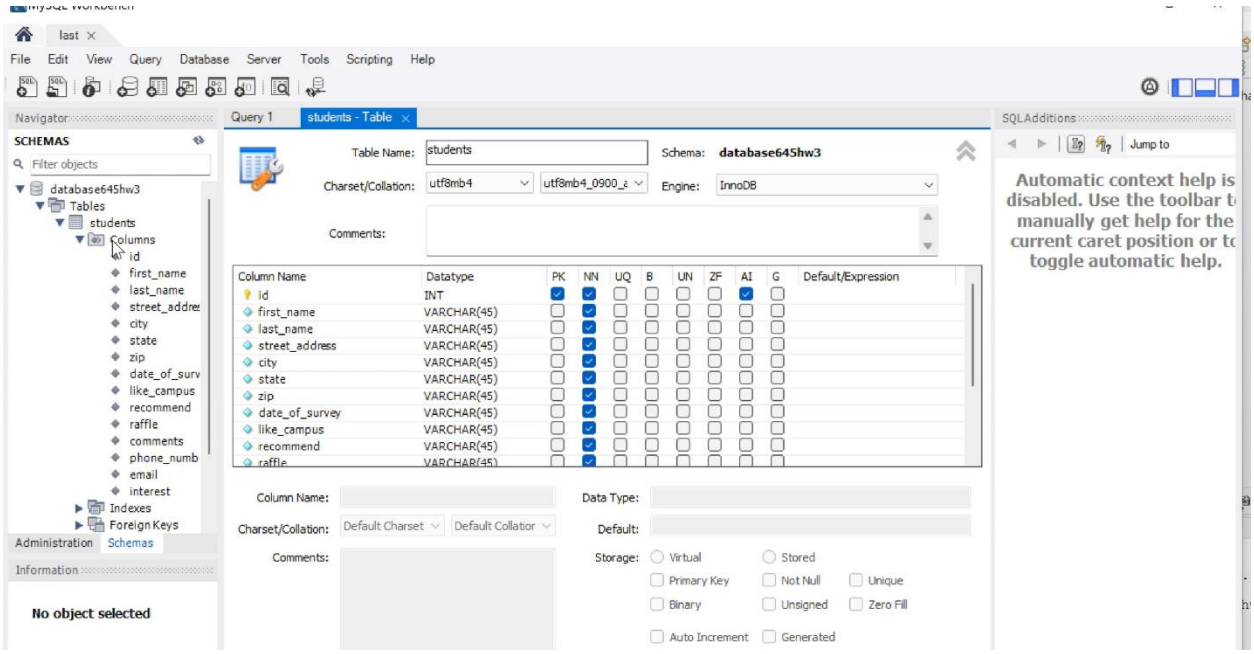
VPC security groups
rds-ec2-3 (sg-0c84986650336b7eb)
Active
vpc (sg-00f868e0c24d9467f)
Active

Publicly accessible

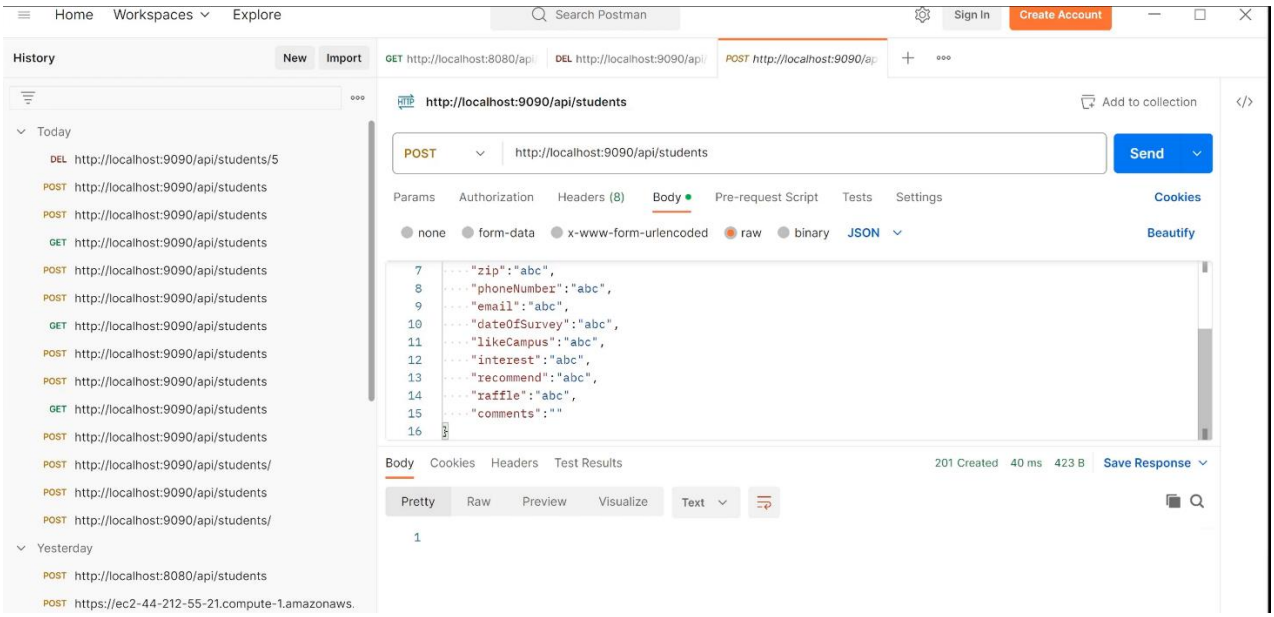
5. Spring Boot Application:



6. MySQL Workbench:



7. Postman for testing GET, POST, DELETE, UPDATE, and get student by id:



8. Docker file:

Code Blame 16 lines (10 loc) · 351 Bytes

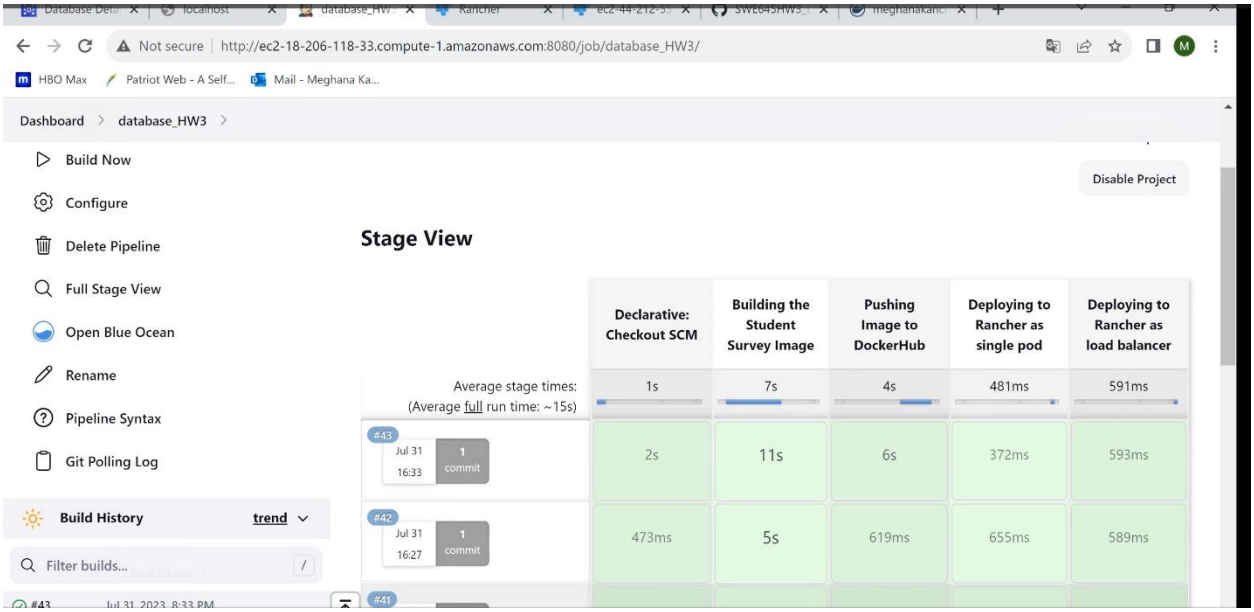
```
FROM ubuntu
RUN apt-get update && apt-get install -y openjdk-17-jdk && apt-get install -y unzip
RUN mkdir database

#COPY newhw3.war /database
COPY 645HW3/target/SWE645hw3-0.0.1-SNAPSHOT.jar /database/newjar.jar
#RUN unzip database/newhw3.war

WORKDIR /database

CMD ["bash"]

CMD ["/usr/bin/java", "-jar", "newjar.jar"]


EXPOSE 8080
```

9. Jenkins file:

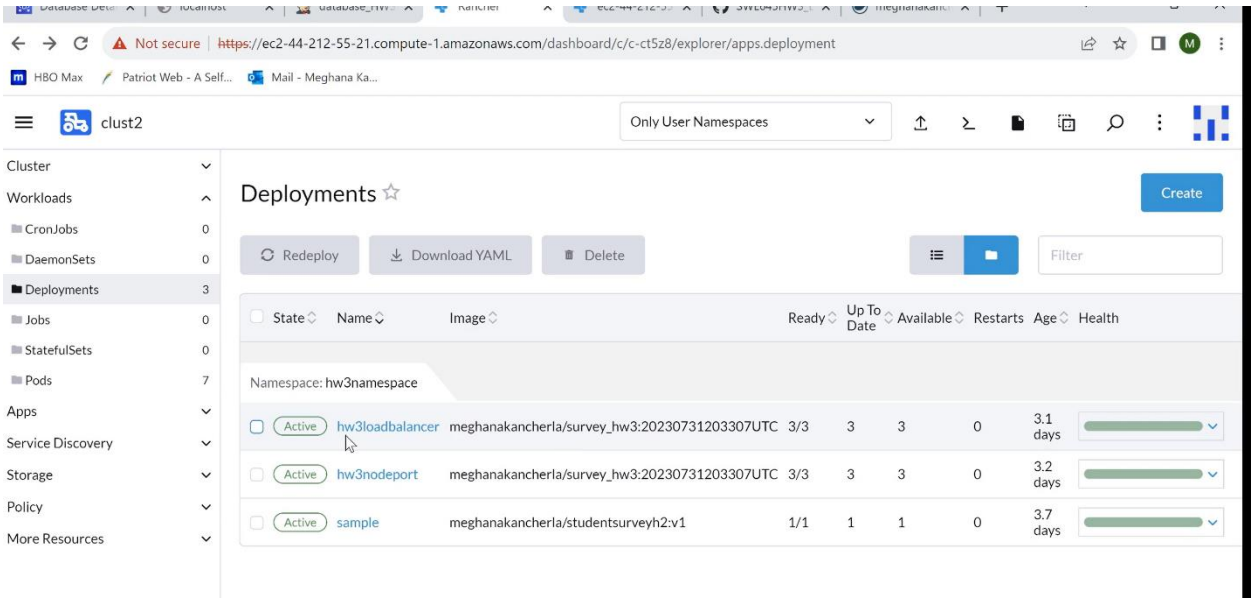
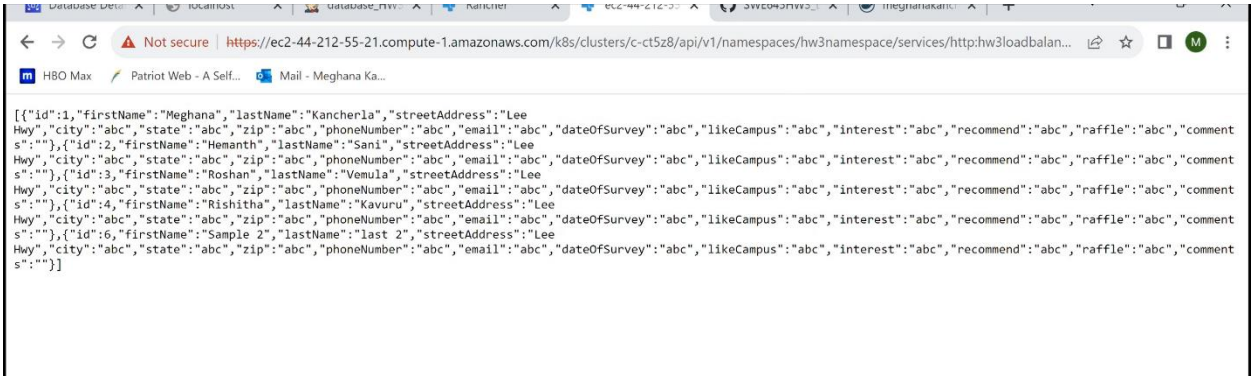
Code Blame 45 lines (43 loc) · 1.54 KB Raw

```
// jenkinsfile
pipeline{
    agent any
    environment {
        DOCKERHUB_PASS = credentials('docker')
    }
    stages {
        stage("Building the Student Survey Image") {
            steps {
                script {
                    checkout scm

                    sh 'rm -rf *.war'
                    sh 'jar -cvf newhw3.war -C 645HW3 .'
                    sh 'echo ${BUILD_TIMESTAMP}'
                    sh "docker login -u $DOCKERHUB_PASS_USR -p $DOCKERHUB_PASS_PSW"
                    sh "docker build -t meghanakancherla/survey_hw3:${BUILD_TIMESTAMP} ."

                }
            }
        }
        stage("Pushing Image to DockerHub") {
            steps {
                script {
                    sh 'docker push meghanakancherla/survey_hw3:${BUILD_TIMESTAMP}'
                }
            }
        }
        stage("Deploying to Rancher as single pod") {
```

10. Jenkins connection:



11. Rancher:



12. POST accessing using Kubernetes URL: