

IN STS CLONE BELOW CODE:

https://github.com/DEVOPS-WITH-WEB-DEV/springboot-k8s.git

PLAYLIST FOR OUR BOOTCAMP2 WITH HANDSON VIDEO:

https://www.youtube.com/playlist?list=PLj-3PZIPbUVThOSi1QRqNQoTlE04Kl4zN

- 1. Launch an instance from an Amazon Linux 2 or Amazon Linux AMI with t2.medium
- 2. Connect to your instance.
- 3. Update the packages and package caches you have installed on your instance.

yum update -y

4. Install the latest Docker Engine packages.

PRAVEEN SINGAMPALLI

amazon-<u>linux</u>-extras install docker OR <u>yum</u> install docker -y

docker -v

5. Start the Docker service.

<u>systemctl</u> start docker <u>systemctl</u> enable docker

6. Install Conntrack and git:

yum install conntrack -y

yum install git -y

7. Install k8

curl -LO

https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64

<u>sudo</u> install <u>minikube</u>-<u>linux</u>-amd64 /<u>usr</u>/local/bin/<u>minikube</u>

8. Start Minikube

/usr/local/bin/minikube start --force --driver=docker

/usr/local/bin/minikube version

9. Install kubectl

curl -LO "https://dl.k8s.io/release/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

/usr/local/bin/kubectl version

9.1 – Clone the repo

cd /opt/

git clone https://github.com/DEVOPS-WITH-WEB-DEV/springboot-k8s.git

10. Make the DB UP

/usr/local/bin/kubectl create -f db-deployment.yaml

/usr/local/bin/kubectl get pods

/usr/local/bin/kubectl exec -it mysql-f759455cd-2dh8m /bin/bash

mysql -u root -p root

show databases;

- 11. yum install maven -y
- 12. Create the docker image

docker build -t praveensingam1994/springboot-crud-k8s:1.0.

13. docker login [CREATE A DOCKER HUB ACCOUNT BEFORE]
Give dockehub username and password

docker image push praveensingam1994/springboot-crud-k8s:1.0

- 14. /usr/local/bin/kubectl apply -f app-deployment.yaml
- 15. /usr/local/bin/kubectl get svc
- 16. /usr/local/bin/minikube ip
- 17. PUT PORT FORWARD

/<u>usr</u>/local/bin/<u>kubectl</u> port-forward --address 0.0.0.0 <u>svc</u>/<u>springboot-crud</u>-<u>svc</u> 8080:8080 &

[HOST PORT TO CONTAINER PORT]

<u>kubectl</u> port-forward --address 0.0.0.0 <u>svc</u>/{your service name} {external port to the Internet}:{your service port, the port your <u>app</u> is listening on in it's container}

for example, if my service is named store and is listening on 80

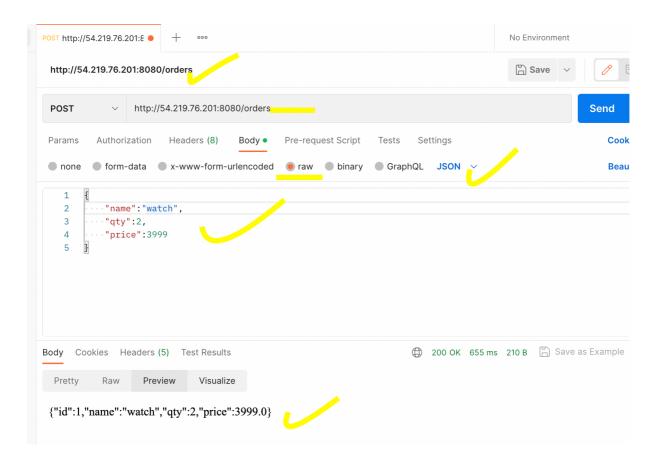
kubectl port-forward --address 0.0.0.0 svc/store 8888:80

18) JSON DATA TO BE HITTED WITH POST

```
1) URL POST - <a href="http://<EC2IP>:8080/orders">http://<EC2IP>:8080/orders</a>
```

```
DATA TO SENT IN RAW TAB
```

```
{
    "name":"shoes",
    "qty":5,
    "price":6999
```



18.1 -> Check Database

```
singamlabs
sys
rows in set (0.00 sec)
ysql> use singamlabs;
eading table information for completion of table and colu
ou can turn off this feature to get a quicker startup wit
atabase changed
ysql> show tables;
Tables_in_singamlabs
hibernate_sequence
 orders_tbl
rows in set (0.00 sec)
ysql> select * from orders_tbl;
 id
             price
     name
                    | qty
      shoes
               6999
 2
      chair
                 99
rows in set (0.00 sec)
```

URL GET - <a href="http://<EC2IP>:8080/orders/1">http://<EC2IP>:8080/orders/1



19 - FOR DASHBOARD:

IN ONE TERMINAL

/usr/local/bin/kubectl proxy --address='0.0.0.0' --accept-hosts='^*\$'

IN OTHER TERMINAL

/usr/local/bin/minikube dashboard

20 - Hit this url in browser

http://<EC2IP>:8001/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/pod?namespace=default

