Git Link: <https://github.com/swayaan-training/todoapi_mongo>

App: http://localhost/swagger-ui/index.html#/todo-controller

Docker Command: docker run -d -p 27017:27017 --name mongodb-container mongo:latest

[bit.ly/anz\_gha](http://bit.ly/anz_gha)

Git Link: <https://github.com/swayaan-training/todoapi_mongo>

git clone -b <branch> <remote\_repo>

git clone -b main <https://github.com/swayaan-training/todoapi_mongo>

Docker run -d –name todoapp ubuntu:latest

Docker commands:

$ java -jar todoapp-0.0.1-SNAPSHOT.jar

$ docker pull ubuntu

$ docker run -d --name todoapp ubuntu:latest

$ docker run -d --name hrms ubuntu:latest

$ docker run -d --name slleper ubuntu:latest sleep 5000

$ uname

$ docker exec -it slleper bash

$ uname

$ docker commit slleper mytodoapp

// Create a dockerfile in any folder with below content

FROM ubuntu:latest

RUN touch readme.txt

RUN echo hello >> readme.txt

$ docker build -t myubuntu .

$ clear

$ docker run -it myubuntu:latest bash

$ docker images

$ docker tag myubuntu:latest vijaynvb/myubuntu:1.0

$ docker images

$ docker login

$ docker push vijaynvb/myubuntu:1.0

docker run -d -p 27017:27017 --name mongodb-container mongo:latest

docker run -d -p 9090:8081 vijaynvb/mytodoanzapp

In browser: <http://localhost:9090/swagger-ui/index.html#/>

Docker file commands in the java project

FROM openjdk:23-ea-21-oraclelinux9

ADD target/\*.jar app.jar

ENTRYPOINT ["java","-jar","app.jar"]

Kubernetes:

prodns.yml

—----

apiVersion: v1

kind: Namespace

metadata:

name: prod

labels:

app: MyBigWebApp

—----

$ kubectl version

$ kubectl get pods

$ kubectl get namespaces

$ kubectl create -f prodns.yml

$ kubectl get namespaces

$ kubectl edit namespace prod

$ kubectl delete namespace prod

$ kubeclt apply -f prodns.yml

$ kubectl apply -f prodns.yml

$ kubectl api-resources

Pod.yml

—----

apiVersion: v1

kind: Pod

metadata:

name: pod-example

spec:

containers:

- name: todoapp

image: vijaynvb/todoapijenkins:2.0

ports:

- containerPort: 80

—----

$ kubectl create ns dev

$ kubectl get ns

$ kubectl get pods

$ kubectl create -f pod.yaml

$ kubectl get pods

$ kubectl delete -f pod.yaml

$ kubectl apply -f pod.yaml

$ kubectl get pods

$ kubectl get pods

// add namespace: dev under metadata in pod.yaml

$ kubectl apply -f pod.yaml

$ kubectl get pods

$ kubectl get pods --all-namespaces

GKE Setup

Repo for fork: <https://github.com/vijaynvb/todoapi.git>

Codefresh kubernetes integration: https://codefresh.io/docs/docs/integrations/kubernetes/