

Web Hosting

Phase 5 Practice Project Set 4

Name: C Balamanikandan

1. Create a pod
kkarthik520/d994804b5be4

```
C:\Users\Karthik>kubectl run spring-k8 --image=kkarthik520/d994804b5be4 --port=8083
pod/spring-k8 created
```

2. List of pods

```
C:\Users\Karthik>kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
spring-k8     1/1     Running   0           33s
```

Create a deployment

This command ensures that all the pods are running or not with this image.

If not running it makes the image active over the container

```
C:\Users\Karthik>kubectl create deployment spring-k8 --image=kkarthik520/d994804b5be4
deployment.apps/spring-k8 created
```

```
C:\Users\Karthik>kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
spring-k8     1/1     Running   0           3m36s
spring-k8-56bc844887-lhb7d  1/1     Running   0           4s
```

Create a service :

It starts the image over the container

```
C:\Users\Karthik>kubectl expose deployment spring-k8 --type LoadBalancer --port 8083 --target-port 8083
service/spring-k8 exposed
```

See the service

```
C:\Users\Karthik>kubectl get services
NAME      TYPE        CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes  ClusterIP   10.96.0.1        <none>            443/TCP          36m
spring-k8  LoadBalancer  10.107.216.125   localhost         8083:32180/TCP   65s

C:\Users\Karthik>kubectl logs spring-k8

:: Spring Boot ::
(2.7.17)

2024-01-12 04:11:45.400 INFO 1 --- [
1-SNAPSHOT.war started by root in /]
2024-01-12 04:11:45.419 INFO 1 --- [
main] c.example.demo.SpringawsdemoApplication : Starting SpringawsdemoApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on spring-k8 with PID 1 (/Springawsdemo-0.0
2024-01-12 04:11:50.099 INFO 1 --- [
main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8083 (http)
2024-01-12 04:11:50.154 INFO 1 --- [
main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2024-01-12 04:11:50.155 INFO 1 --- [
main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.82]
2024-01-12 04:11:52.867 INFO 1 --- [
main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2024-01-12 04:11:52.868 INFO 1 --- [
main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 7145 ms
2024-01-12 04:11:56.497 INFO 1 --- [
main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8083 (http) with context path ""
2024-01-12 04:11:56.549 INFO 1 --- [
main] c.example.demo.SpringawsdemoApplication : Started SpringawsdemoApplication in 13.596 seconds (JVM running for 17.884)
```

