



kubernetes

Liveness and Readiness probe

Prerequisite

- ❑ Docker Knowledge
- ❑ Basic Kubernetes Knowledge

Need For Probes

- ✓ Pod is a collection of 1 or more docker containers. It is an atomic unit of scaling in Kubernetes. Pod has a life-cycle with multiple phases.
- ✓ in order to accept any incoming request, all the containers must be ready to serve the requests!
- ✓ Livenesss and Readiness probes are the tools to monitor the pods & its health and take appropriate actions in case of failure.
- ✓ These probes are optional for a Pod deployment

Sample Application:

- ✓ I have a very simple spring boot application packaged into an docker container.
- ✓ It has 2 end points.
 - **/health** simply sleeps for the given time and responds with a message how long it was sleeping
 - **/processing-time/{time}** – it sets new time for sleeping for any future **/health** requests
- ✓ Dockerfile accepts an env variable called START_DELAY to simulate slow server start time.

```
# Use JRE8 slim
FROM openjdk:8u191-jre-alpine3.8

# Add the app jar
ADD target/*.jar app.jar

ENTRYPOINT sleep ${START_DELAY:-0} && java -jar app.jar
```

Tips

How to get the logs of container

THANK YOU !!