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ky aap mujh Kubernetes file ke ander jo lines likh te he use line by line samjha sakte he ky jo mujh spring boot project me use karna he.

Haan, main aapko Kubernetes file ke kuch important lines ko line by line explain kar sakta hu

jo aapko apne Spring Boot project me use karna hai.

1. **"apiVersion:"** - Yeh Kubernetes API version ko specify karta hai jiske sath yeh YAML file compatible hai. Sabse common API version v1 hai.

2. **"kind:"** - Yeh object type ko specify karta hai jo aap create kar rahe hai. Jaise ki Pod, Deployment, Service, etc.

3. **"metadata:"** - Yeh object ki metadata ko define karta hai, jaise ki name, labels, annotations, etc.

4. **"spec:"** - Yeh object ka desired state aur configuration ko define karta hai.

5. **"containers:"** - Yeh ek array hota hai jisme ek ya multiple containers ke configurations hoti hai. Agar aap Spring Boot application ko containerize karna chahte hai, to aap ek container me Spring Boot application ka image define kar sakte hai.

6. **"image:"** - Yeh Docker image ka name aur tag define karta hai jo container me run hoga.

7. **"ports:"** - Yeh container ke ports ko define karta hai jisse bahar se access kiya ja sakta hai. Spring Boot application ke default port 8080 hai, isliye aap 8080 port ko expose kar sakte hai.

8. **"env:"** - Yeh environment variables ko define karta hai jo container me use kiya ja sakta hai. Agar aap Spring Boot application ke configuration values ko runtime me set karna chahte hai, to aap environment variables ka use kar sakte hai.

9. **"resources:"** - Yeh container ke CPU, memory, storage jaise resources ko define karta hai.

Upar diye gaye lines ko Spring Boot application ko containerize karne ke liye use kiya ja sakta hai. Lekin Kubernetes ke aur bhi bahut se features hai jo aap apne application ke requirement ke hisab se use kar sakte hai.

ky aap mujh ek example ke dawara bata sakte he

Haan, main aapko ek example ke through samjha sakta hu. Neeche diya gaya YAML file ek simple Spring Boot application ko containerize karne ke liye use kiya ja sakta hai.

yamlCopy code

apiVersion: v1
kind: Pod
metadata:
 name: spring-boot-app
spec:
 containers:
 - name: spring-boot-container
 image: my-spring-boot-app:latest
 ports:
 - containerPort: 8080
 env:
 - name: SPRING_PROFILES_ACTIVE
 value: production
 resources:
 limits:
 cpu: 0.5
 memory: 512Mi
 requests:
 cpu: 0.2
 memory: 256Mi

Yeh file ek Pod object ko create karta hai jisme ek container hai jisme Spring Boot application ka image hai. Container me 8080 port expose kiya gaya hai jisse application ke bahar se access kiya ja sakta hai. Environment variable SPRING_PROFILES_ACTIVE production set kiya gaya hai. CPU aur memory ke resources ka limit aur request bhi define kiya gaya hai.

Aap ise kubectl apply command se Kubernetes cluster me deploy kar sakte hai.

phpCopy code

kubectl apply -f <filename.yaml>

Iske baad aap kubectl get pods command se pod ka status check kar sakte hai.

csharpCopy code

kubectl get pods

Aap ke pod status me Running dikhai dega. Iske baad aap Spring Boot application ko browser se 8080 port pe access kar sakte hai.

Regenerate response

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