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Spring Boot on Kubernet

Kubernetes file for Spring.

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kubect1 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.

ky aap mujh Kubernetes service 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 Service 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 Service.

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. `selector:` - Yeh Service ke backend ke Pods ko select karne ke liye use kiya jata hai. Aap Spring Boot application ke liye label selector ka use kar sakte hai.

6. `ports:` - Yeh Service ke ports ko define karta hai jisse bahar se access kiya ja sakta hai.

7. `type:` - Yeh Service ka type define karta hai. Kubernetes me Service ke 4 types hote hai: ClusterIP, NodePort, LoadBalancer aur ExternalName.

Upar diye gaye lines ko Spring Boot application ke liye Service file me use kiya ja sakta hai. Neeche diya gaya YAML file ek ClusterIP Service ko create karta hai jisme Spring Boot application ka backend hai.

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```
apiVersion: v1
kind: Service
metadata:
  name: spring-boot-service
spec:
  selector:
    app: spring-boot-app
  ports:
    - name: http
      protocol: TCP
      port: 8080
      targetPort: 8080
  type: ClusterIP
```

Yeh file ek Service object ko create karta hai jisme Spring Boot application ke backend ke Pods ko select karne ke liye app label ka use kiya gaya hai. 8080 port ko expose kiya gaya hai jisse Service ke bahar se access kiya ja sakta hai. ClusterIP type ka use kiya gaya hai jisse Service ka ClusterIP address assign kiya jayega.

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

Copy code

kubect1 apply -f <filename.yaml>

Iske baad aap kubectl get services command se Service ka status check kar sakte hai.

Copy code

kubect1 get services

Aap ke Service ka status me spring-boot-service dikhai dega. Iske baad aap Spring Boot application ko Service ke ClusterIP address pe access kar sakte hai.

Regenerate response

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