## **LAB EXAM 7 AWS EKS**

# Create Cluster using eksctl

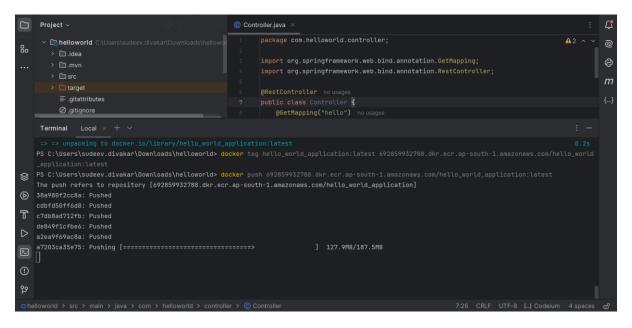
```
Experience of the property of
```

#### Simple Hello World Spring Boot Application

```
package com.helloworld.controller:
     helloworld
                                                                                                   A 2
                                                                                                           @
80
     > 🗀 .idea
                                                                                                           ළ
                                            import org.springframework.web.bind.annotation.RestController:
                                                                                                          m
        > 🖺 resources
\otimes
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   ଟ ■ @ ∄ :
T
      2025-02-28T15:49:45.133+05:30 INFO 22968 --- [helloworld] [
                                                       main] com.helloworld.HelloworldApplication
                                                                                       : Started HelloworldApplic
                                                                                        : Initializing Spring Disp
   : Completed initialization
የያ
```

## Create AWS ECR repository

### Dockerize application and push onto AWS ECR



```
PS C:\Users\sudeev.divakar\Downloads\helloworld> kubectl apply -f deployment.yaml deployment.apps/hello-world-application created
PS C:\Users\sudeev.divakar\Downloads\helloworld> kubectl apply -f service.yaml service/hello-world-service created
```

```
PS C:\Users\sudeev.divakar\Downloads\helloworld> kubectl get pods
NAME
                                            READY
                                                     STATUS
                                                               RESTARTS
                                                                               AGE
hello-world-application-67db74dddb-cpwvb
                                                                               14s
                                            1/1
                                                     Running
                                                               Θ
hello-world-application-67db74dddb-vflbb
                                            1/1
                                                     Running
                                                               8 (6m8s ago)
                                                                               17m
```

```
PS C:\Users\sudeev.divakan\Downloads\helloworld> kubect| get svc

NAME TYPE CLUSTER!P EXTERNAL-IP PORT(S) AGE

hello-world-service LoadBalancer 10.100.50.179 adfe8d3471fd044bab08d99529bd91e9-916693709.ap-south-1.elb.amazonaws.com 80:30099/TCP 18m

kubernetes ClusterIP 10.100.0.1 <none>

65m

PS C:\Users\sudeev.divakar\Downloads\helloworld>
```

Hello World