- 1. **Github repository:** https://github.com/Abhiramikannan/spring-boot-hello-world.git
- 2. Dockerhub image: abhiramikannan/javaimage general | Docker Hub
- 3. Yaml files used: deployment.yaml, service.yaml
- 4. Deployment.yaml:

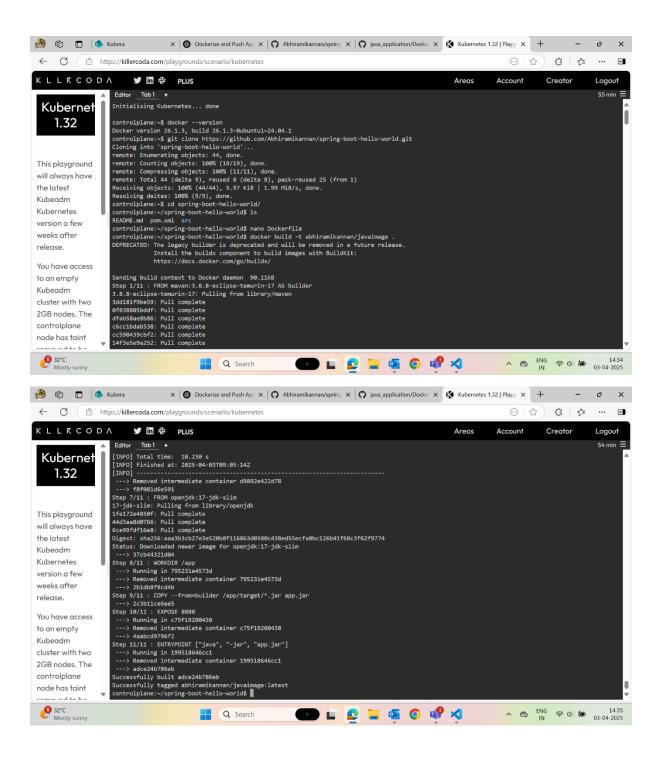
```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: hello-world-deployment
 labels:
   app: java-application
  replicas: 3
  selector:
   matchLabels:
     app: java-application
 template:
    metadata:
     labels:
       app: java-application
   spec:
     containers:
      - name: java-application
       image: abhiramikannan/javaimage:latest
       ports:
        - containerPort: 8080
```

5. Service.yaml:

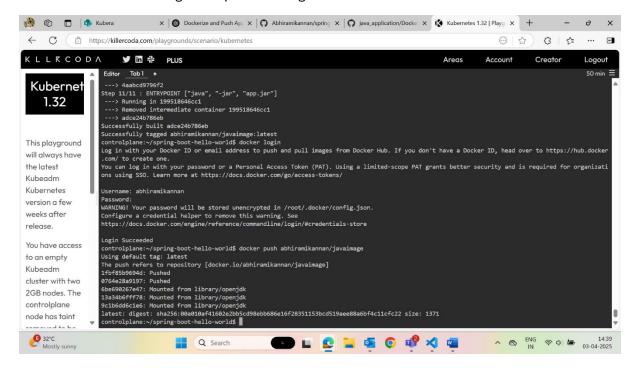
```
apiVersion: v1
kind: Service
metadata:
 name: my-service
spec:
 type: NodePort
 selector:
   app: java-application
 ports:
   - port: 8080
     # By default and for convenience, the `targetPort` is set to
     # the same value as the `port` field.
     targetPort: 8080
     # Optional field
     # By default and for convenience, the Kubernetes control plane
      # will allocate a port from a range (default: 30000-32767)
     nodePort: 30007
```

6. Screenshots:

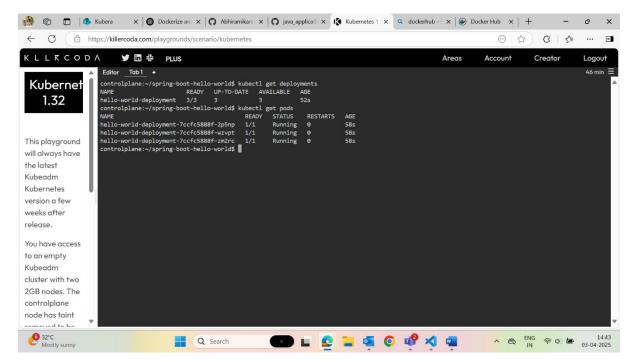
• Building image: docker build -t abhiramikannan/javaimage.



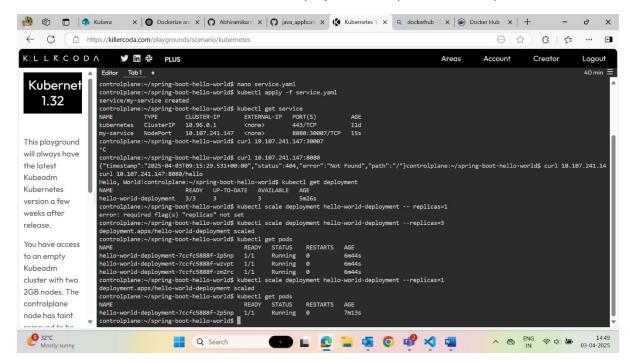
• Docker login and pushed image to docker hub



Created deployment



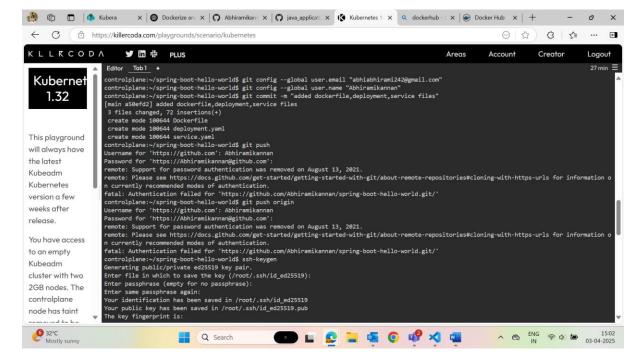
Created service, scaled the deployment as replicas=3 and replicas=1



• Curled using clusterip because no public ip there.

```
my-service NodePort 10.107.241.147 <none> 8080:30007/TCP 5m51s
controlplane:~/spring-boot-hello-world$ curl 10.107.241.147:8080/hello
Hello, World!controlplane:~/spring-boot-hello-world$
```

Pushed into github by using ssh



• The deployment file

```
controlplane:~/spring-boot-hello-world$ cat deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: hello-world-deployment
   app: java-application
spec:
 replicas: 3
 selector:
   matchLabels:
     app: java-application
 template:
   metadata:
     labels:
       app: java-application
     containers:
      - name: java-application
       image: abhiramikannan/javaimage:latest
       - containerPort: 8080
```

• The service file

```
controlplane:~/spring-boot-hello-world$ cat service.yaml
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  type: NodePort
  selector:
    app: java-application
  ports:
    - port: 8080
      # By default and for convenience, the `targetPort` is set to
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      targetPort: 8080
      # Optional field
      # By default and for convenience, the Kubernetes control plane
      # will allocate a port from a range (default: 30000-32767)
      nodePort: 30007
```