

Lab Exam EKS

The screenshot shows an IDE with a Maven project named 'employeeappaws'. The 'pom.xml' file is open, showing the project configuration. The Maven lifecycle is visible on the right, with the 'package' phase selected. The console output shows the build process, including the message 'BUILD SUCCESS'.

```
<?xml version="1.0" encoding="UTF-8" ?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>3.3.9</version>
        <relativePath/> <!-- lookup parent -->
    </parent>
    <groupId>com.employee</groupId>
    <artifactId>employeeappaws</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>employeeappaws</name>
    <description>Demo project for Spring Boot</description>
    <properties>
        <java.version>17</java.version>
    </properties>
    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>
    </dependencies>
    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>
```

Run employeeappaws [package] x

employeeappaws [package]: At 28-02-18 sec, 2 ms

```
[INFO] The original artifact has been renamed to C:\Users\ashrit.bharadwaj\Desktop\ASHRIT\Java
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 6.519 s
[INFO] Finished at: 2025-02-28T15:12:08+05:30
[INFO] -----
```

The screenshot shows the Amazon ECR console. A green banner at the top indicates 'Successfully created empapp1'. Below, the 'Private repositories' section shows a table with the repository 'empapp1'.

Repository name	URI	Created at	Tag immutability	Encryption type
empapp1	396608797955.dkr.ecr.ap-south-1.amazonaws.com/empapp1	February 28, 2025, 15:26:13 (UTC+05.5)	Mutable	AES-256

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```
2025-02-28 15:45:02 [i] kubectl command should work with "C:\\Users\\ashrit.bharadwaj\\.kube\\config", try 'kubectl get nodes'
2025-02-28 15:45:02 [✓] EKS cluster "lucifer-cluster" in "ap-south-1" region is ready
```

```
KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws (master)
$ docker image ls
REPOSITORY                                TAG      IMAGE ID      CREATED      SIZE
396608797955.dkr.ecr.ap-south-1.amazonaws.com/empapp1  latest   12beb0af6e00  31 minutes ago  348MB
empapp1                                     latest   12beb0af6e00  31 minutes ago  348MB
empapp                                      latest   12beb0af6e00  31 minutes ago  348MB
396608797955.dkr.ecr.ap-south-1.amazonaws.com/empapp  <none>    cfd7d4170c8  2 days ago     348MB
peslug21cs120ashritbharadwaj/bookapp           1.1      bfb841b7a363  2 weeks ago    527MB
paketobuildpacks/run-jammy-base                 latest   73599ad5768a  3 weeks ago    121MB
hello-world                                     latest   74cc54e27dc4  5 weeks ago    10.1kB
kindest/node                                    <none>    2d9b4b74084a  2 months ago   1.05GB
openzipkin/zipkin                               2.23     578ebf2b5486  2 years ago    161MB
paketobuildpacks/buildpack-jammy-base           latest   5c8d400c5120  45 years ago   1.66GB
peslug21cs120ashritbharadwaj/bookapp            1.2      7f16bd0f9117  45 years ago   365MB
peslug21cs120ashritbharadwaj/bookapp            v2       7f16bd0f9117  45 years ago   365MB
peslug21cs120ashritbharadwaj/bookapp            1.4      ae06ec23d424  55 years ago   309MB
peslug21cs120ashritbharadwaj/bookapp            1.3      bf9fa69b1a99  55 years ago   527MB

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws (master)
$ ^C

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws (master)
$ aws eks --region ap-south-1 update-kubeconfig --name lucifer-cluster
Added new context arn:aws:eks:ap-south-1:396608797955:cluster:lucifer-cluster to C:\Users\ashrit.bharadwaj\.kube\config

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws (master)
$ cd k8s/

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws/k8s (master)
$ kubectl apply -f 2-service.yaml
deployment.apps/empapp-deploy created
service/empapp-svc created

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws/k8s (master)
$ kubectl get all
NAME                                     READY   STATUS              RESTARTS   AGE
pod/empapp-deploy-656757747b-7chsc      0/1     ContainerCreating   0           8s
pod/empapp-deploy-656757747b-ffkpg      0/1     ContainerCreating   0           8s
pod/empapp-deploy-656757747b-pbtvg      0/1     ContainerCreating   0           8s

NAME                                     TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/empapp-svc                      LoadBalancer  10.100.121.19    aa205da36e4fe4c86b4a1df87011f389-679657728.ap-south-1.elb.amazonaws.com  80:30270/TCP     8s
service/kubernetes                      ClusterIP      10.100.0.1       <none>            443/TCP          15m

NAME                                     READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/empapp-deploy            0/3     3             0           8s

NAME                                     DESIRED   CURRENT   READY   AGE
replicaset.apps/empapp-deploy-656757747b  3         3         0       8s
```

```
KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws/k8s (master)
$ kubectl get all
NAME                                     READY   STATUS              RESTARTS   AGE
pod/empapp-deploy-656757747b-7chsc      1/1     Running         0           49s
pod/empapp-deploy-656757747b-ffkpg      1/1     Running         0           49s
pod/empapp-deploy-656757747b-pbtvg      1/1     Running         0           49s

NAME                                     TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/empapp-svc                      LoadBalancer  10.100.121.19    aa205da36e4fe4c86b4a1df87011f389-679657728.ap-south-1.elb.amazonaws.com  80:30270/TCP     49s
service/kubernetes                      ClusterIP      10.100.0.1       <none>            443/TCP          16m

NAME                                     READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/empapp-deploy            3/3     3             3           50s

NAME                                     DESIRED   CURRENT   READY   AGE
replicaset.apps/empapp-deploy-656757747b  3         3         3       50s

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws/k8s (master)
$ ^C

KSCSGLOBAL+ashrit.bharadwaj@IN-18X3B54 MINGW64 ~/Desktop/ASHRIT/JavaTraining/aws_projects/employeeappaws/k8s (master)
$
```

