

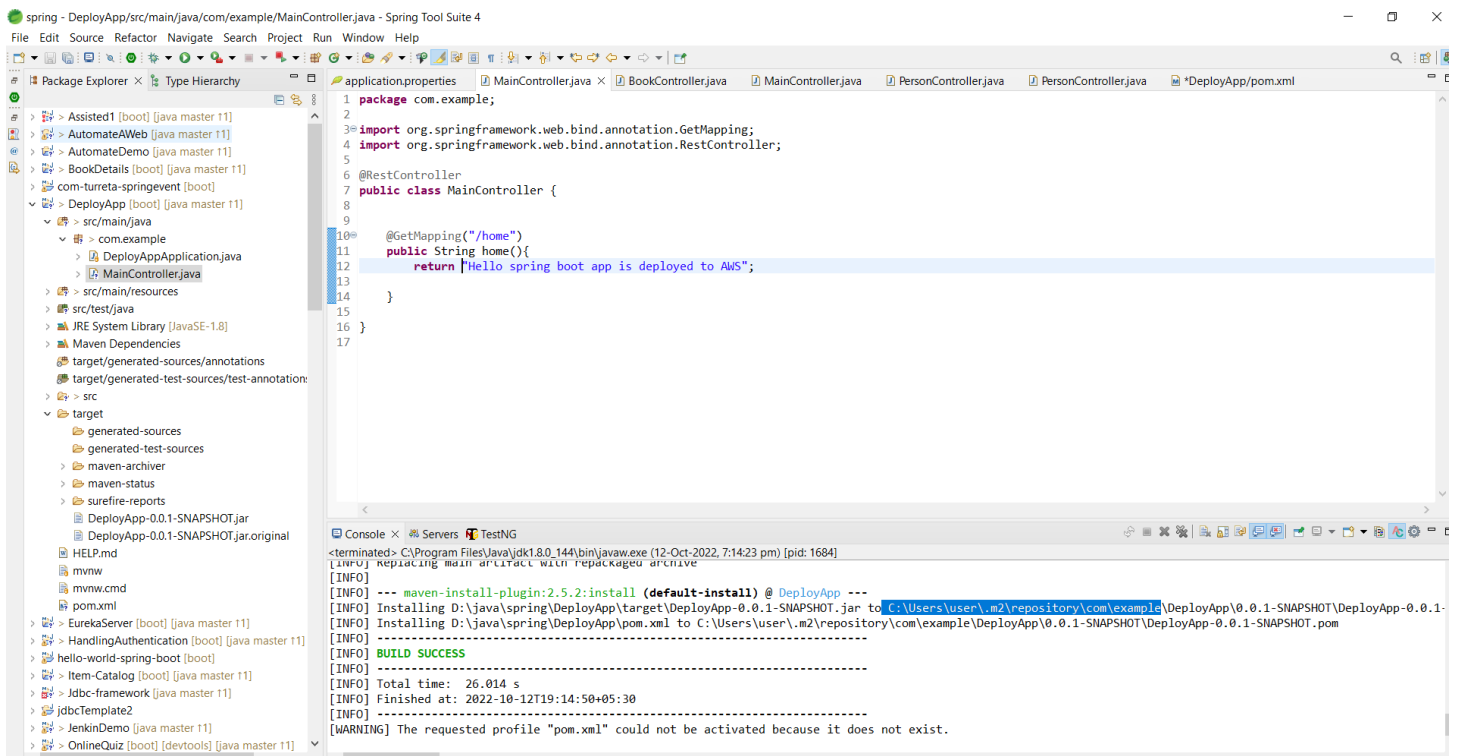
PHASE 5

PRACTICE PROJECT

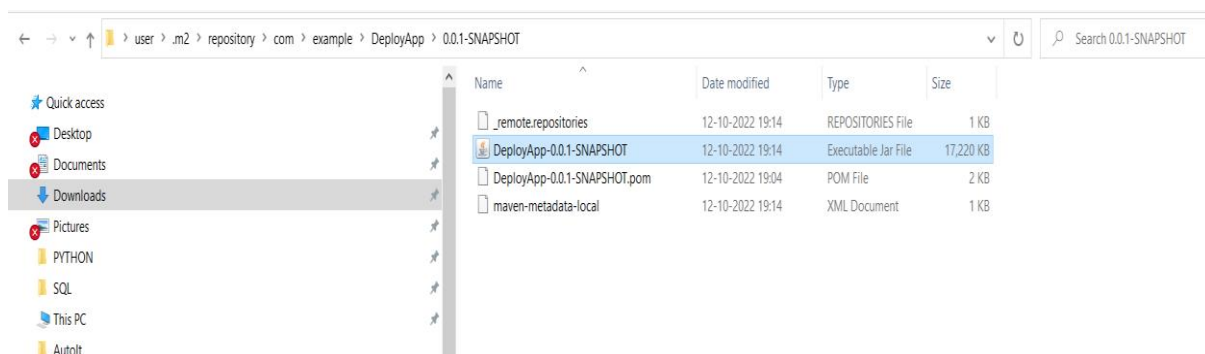
DEPLOY APPLICATION ON CLOUD

OUTPUT

THE SPRING BOOT APPLICATION IS CREATED AND BUILT SUCCESSFULLY



THE PATH OF JAR FILE



CREATE AN INSTANCE IN AWS

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Instances' page is open, showing a list of two running EC2 instances. The first instance, 'i-0bc4f966f7b17dd9', is selected, and its details are displayed in the right-hand pane. The details pane includes sections for Instance summary, Networking, Storage, Status checks, Monitoring, and Tags. The Instance summary shows the instance is running in us-east-1b, with a public IPv4 address of 3.91.180.11 and a public IPv4 DNS of ec2-3-91-180-11.compute-1.amazonaws.com.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-0bc4f966f7b17dd9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-91-180-11.compute-1.amazonaws.com
-	i-0fd374754cdb3644d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-44-203-11.compute-1.amazonaws.com

Instance: i-0bc4f966f7b17dd9

Instance summary

Instance ID: i-0bc4f966f7b17dd9

Public IPv4 address: 3.91.180.11 | [open address](#)

Private IPv4 addresses: 172.31.89.200

Instance state: Running

Public IPv4 DNS: ec2-3-91-180-11.compute-1.amazonaws.com | [open address](#)

IPV6 address: -

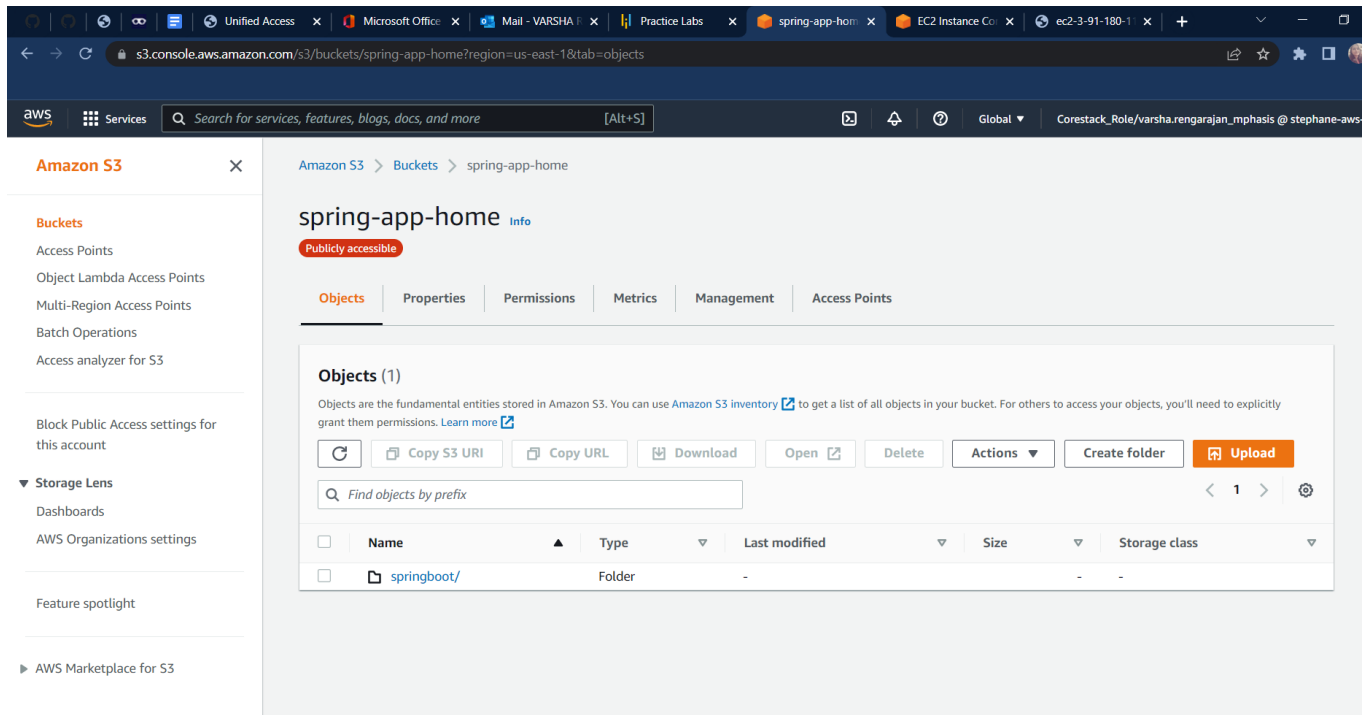
Private IP DNS name (IPv4 only): ip-172-31-89-200.ec2.internal

CREATE A S3 BUCKET

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'S3' page is open, showing a list of one bucket. The bucket, 'spring-app-home', is located in the US East (N. Virginia) region and is public. The 'Create bucket' button is visible in the top right corner of the bucket list.

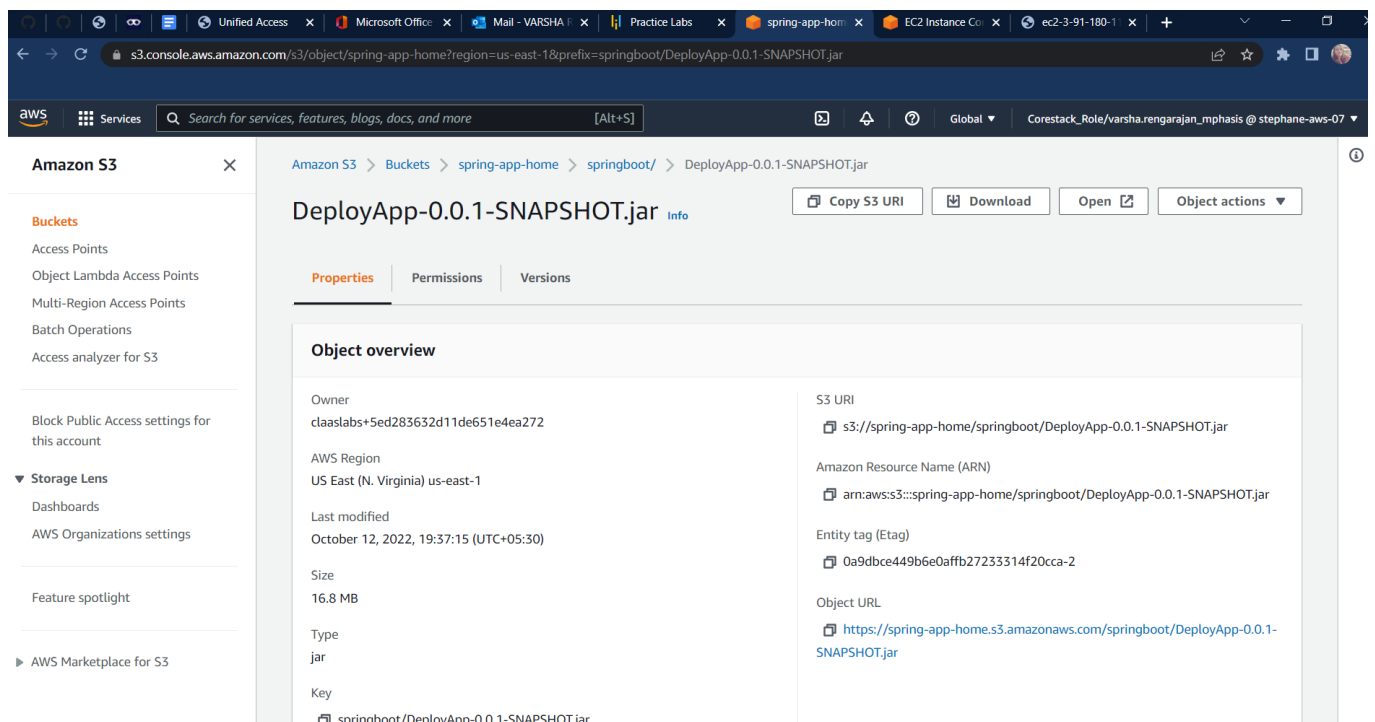
Name	AWS Region	Access	Creation date
spring-app-home	US East (N. Virginia) us-east-1	Public	October 12, 2022, 19:34:37 (UTC+05:30)

CREATE A FOLDER “SPRINGBOOT” AND UPLOAD THE JAR FILE



The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation options like Buckets, Access Points, and Storage Lens. The main content area displays the 'spring-app-home' bucket, which is publicly accessible. Under the 'Objects' tab, a table lists one object: 'springboot/' (Folder). Above the table, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'.

Amazon S3 console view of the 'spring-app-home' bucket. The bucket is publicly accessible. The 'Objects' tab shows one object: 'springboot/' (Folder).



The screenshot shows the Amazon S3 console interface displaying the details of the 'DeployApp-0.0.1-SNAPSHOT.jar' object. The left sidebar is the same as the previous screenshot. The main content area shows the object's properties, including Owner, AWS Region, Last modified, Size, Type, and Key. The 'Object overview' section provides detailed information about the object, including its S3 URI, Amazon Resource Name (ARN), Entity tag (Etag), and Object URL.

Amazon S3 console view of the 'DeployApp-0.0.1-SNAPSHOT.jar' object. The object is a jar file, 16.8 MB in size, and was last modified on October 12, 2022, at 19:37:15 (UTC+05:30).

Object overview

Property	Value
Owner	claa5labs+5ed283632d11de651e4ea272
AWS Region	US East (N. Virginia) us-east-1
Last modified	October 12, 2022, 19:37:15 (UTC+05:30)
Size	16.8 MB
Type	jar
Key	springboot/DeployApp-0.0.1-SNAPSHOT.jar
S3 URI	s3://spring-app-home/springboot/DeployApp-0.0.1-SNAPSHOT.jar
Amazon Resource Name (ARN)	arn:aws:s3:::spring-app-home/springboot/DeployApp-0.0.1-SNAPSHOT.jar
Entity tag (Etag)	0a9dbce449b6e0affb27233314f20cca-2
Object URL	https://spring-app-home.s3.amazonaws.com/springboot/DeployApp-0.0.1-SNAPSHOT.jar

INSTALL THE S3 BUCKET OBJECT IN EC2 INSTANCE

```

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia Corestack_Role/varsha.rengarajan_mphasis @ stephane-aws-07
Connecting to spring-app-home.s3.amazonaws.com (spring-app-home.s3.amazonaws.com) |52.216.89.244|:443... connected.
HTTP request sent, awaiting response... 403 Forbidden
2022-10-12 14:17:04 ERROR 403: Forbidden.

[root@ip-172-31-89-200 ~]# wget https://spring-app-home.s3.amazonaws.com/springboot/DeployApp-0.0.1-SNAPSHOT.jar
--2022-10-12 14:22:47-- https://spring-app-home.s3.amazonaws.com/springboot/DeployApp-0.0.1-SNAPSHOT.jar
Resolving spring-app-home.s3.amazonaws.com (spring-app-home.s3.amazonaws.com)... 52.216.44.97
Connecting to spring-app-home.s3.amazonaws.com (spring-app-home.s3.amazonaws.com)|52.216.44.97|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17633043 (17M) [application/x-www-form-urlencoded]
Saving to: 'DeployApp-0.0.1-SNAPSHOT.jar'

100%[=====>] 17,633,043 90.7MB/s in 0.2s

2022-10-12 14:22:48 (90.7 MB/s) - 'DeployApp-0.0.1-SNAPSHOT.jar' saved [17633043/17633043]

[root@ip-172-31-89-200 ~]# ls
DeployApp-0.0.1-SNAPSHOT.jar
[root@ip-172-31-89-200 ~]# java -jar DeployApp-0.0.1-SNAPSHOT.jar

      _
     / \
    ( ) \
   /\_/\
  ' _/' 
 =====|_|=====|_|_/=/// //
:: Spring Boot ::                (v2.7.4)

```

RUN THE JAR FILE SO THE SERVER ALSO IS STARTED

The screenshot shows a terminal window with the following content:

```

[root@ip-172-31-89-200 ~]# ls
DeployApp-0.0.1-SNAPSHOT.jar
[root@ip-172-31-89-200 ~]# java -jar DeployApp-0.0.1-SNAPSHOT.jar

```

The terminal output shows the Spring Boot logo and the following logs:

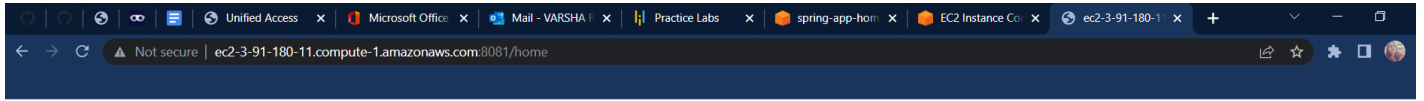
```

:: Spring Boot ::
(v2.7.4)

2022-10-12 14:24:11.227 INFO 10954 --- [main] com.example.DeployAppApplication : Starting DeployAppApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on ip-172-31-89-200.ec2.internal with PID 10954 (/root/DeployApp-0.0.1-SNAPSHOT.jar started by root in /root)
2022-10-12 14:24:11.235 INFO 10954 --- [main] com.example.DeployAppApplication : No active profile set, falling back to 1 default profile: "default"
2022-10-12 14:24:13.933 INFO 10954 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8081 (http)
2022-10-12 14:24:13.959 INFO 10954 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-10-12 14:24:13.959 INFO 10954 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-10-12 14:24:14.108 INFO 10954 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-10-12 14:24:14.108 INFO 10954 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2742 ms
2022-10-12 14:24:15.504 INFO 10954 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8081 (http) with context path ''
2022-10-12 14:24:15.531 INFO 10954 --- [main] com.example.DeployAppApplication : Started DeployAppApplication in 5.335 seconds (JVM running for 6.306)
2022-10-12 14:28:41.247 INFO 10954 --- [nio-8081-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2022-10-12 14:28:41.250 INFO 10954 --- [nio-8081-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2022-10-12 14:28:41.251 INFO 10954 --- [nio-8081-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms

```

THUS SPRING BOOT APPLICATION IS DEPLOYED ON CLOUD



Hello spring boot app is deployed to AWS

