

Phase - 5 Practice Project

3. Deploy Application on Cloud.

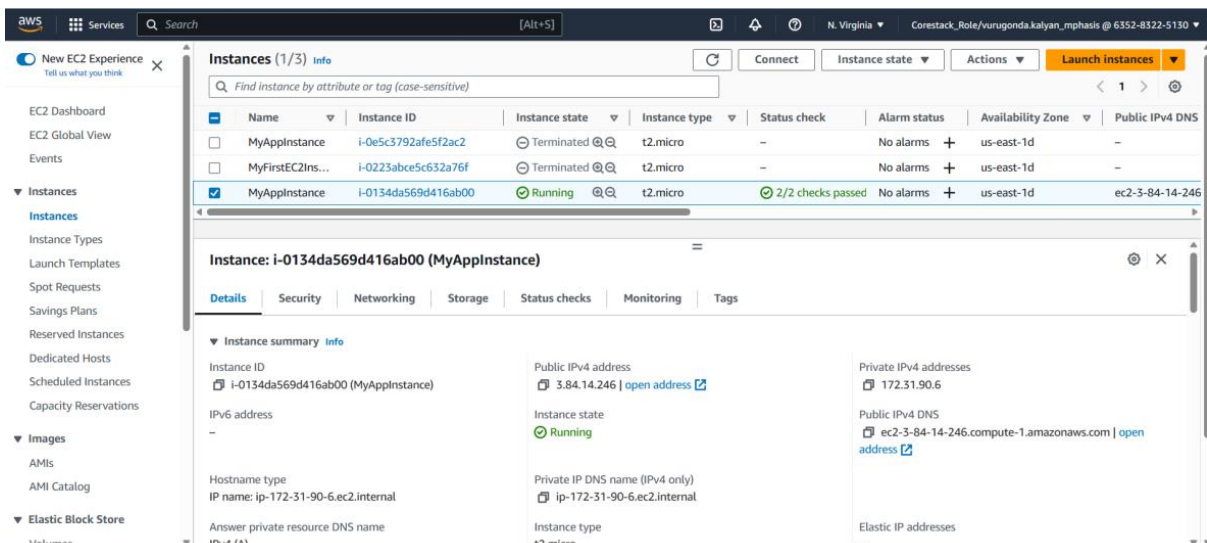
- Output

- ✓ Spring Boot App Console



```
2023-07-25T22:58:26.178+05:30 INFO 25552 --- [main] com.example.AmazonEc2AppApplication : Starting AmazonEc2AppApplication using Java 17.0.7
2023-07-25T22:58:26.181+05:30 INFO 25552 --- [main] com.example.AmazonEc2AppApplication : No active profile set, falling back to 1 default p
2023-07-25T22:58:27.283+05:30 INFO 25552 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-07-25T22:58:27.296+05:30 INFO 25552 --- [main] o.apache.catalina.core.StandardService : Starting Service [Tomcat]
2023-07-25T22:58:27.296+05:30 INFO 25552 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.11]
2023-07-25T22:58:27.411+05:30 INFO 25552 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-07-25T22:58:27.411+05:30 INFO 25552 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization complet
2023-07-25T22:58:27.766+05:30 INFO 25552 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with contex
2023-07-25T22:58:27.778+05:30 INFO 25552 --- [main] com.example.AmazonEc2AppApplication : Started AmazonEc2AppApplication in 2.272 seconds (
2023-07-25T22:58:36.088+05:30 INFO 25552 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherS
2023-07-25T22:58:36.089+05:30 INFO 25552 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2023-07-25T22:58:36.092+05:30 INFO 25552 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 3 ms
```

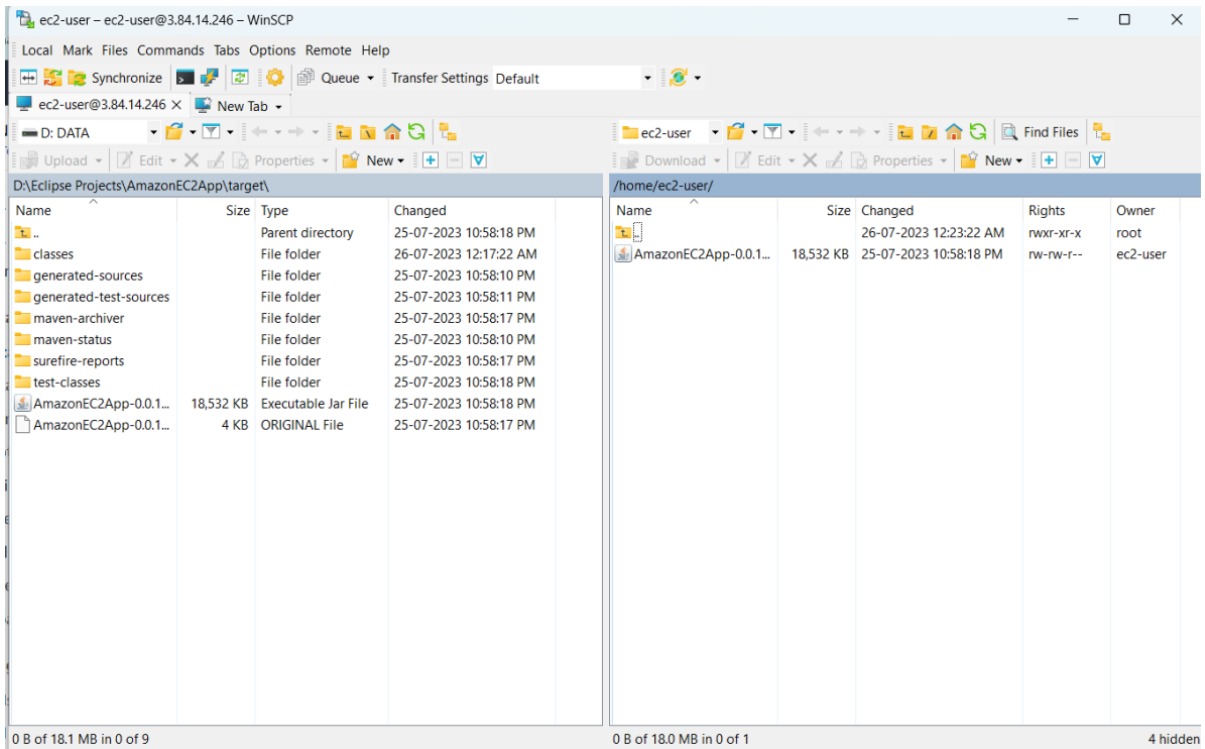
- ✓ Create Instance Details



The screenshot shows the AWS Management Console with the 'Instances' page selected. A table lists three instances, with 'MyApplInstance' (ID: i-0134da569d416ab00) highlighted as 'Running'. Below the table, the 'Details' tab for this instance is expanded, showing various attributes:

Instance summary info	
Instance ID	i-0134da569d416ab00 (MyApplInstance)
IPv6 address	—
Hostname type	IP name: ip-172-31-90-6.ec2.internal
Answer private resource DNS name	ip-172-31-90-6.ec2.internal
Public IPv4 address	3.84.14.246 open address
Instance state	Running
Private IP DNS name (IPv4 only)	ip-172-31-90-6.ec2.internal
Instance type	t3.micro
Private IPv4 addresses	172.31.90.6
Public IPv4 DNS	ec2-3-84-14-246.compute-1.amazonaws.com open address
Elastic IP addresses	—

- ✓ WinSCP



- ✓ EC2 Terminal

```

ec2-user@ip-172-31-90-6:~$ ssh -C -o StrictHostKeyChecking=no ec2-user@ec2-3-84-14-246.compute-1.amazonaws.com
Microsoft Windows [Version 10.0.22621.1992]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Kalyan Vurugonda\Desktop\AWS>C:\Windows\System32\OpenSSH\ssh.exe -i MyAppKeyPair.pem ec2-user@ec2-3-84-14-246.compute-1.amazonaws.com
The authenticity of host 'ec2-3-84-14-246.compute-1.amazonaws.com (3.84.14.246)' can't be established.
ED25519 key fingerprint is SHA256:u+XyM0hIOTWgLSxqqpRL030LizHxWnS+fvp5rsqY8.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-84-14-246.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

      ##
     _ \ #####          Amazon Linux 2023
    /_/\#####\
   /___/\###|
        \|#/_ --- https://aws.amazon.com/linux/amazon-linux-2023
         V~^'^-->
            ^
           / \
          /   \
         /____\

[ec2-user@ip-172-31-90-6 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-90-6 ~]$ ls
AmazonEC2App-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-90-6 ~]$ chmod 777 AmazonEC2App-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-90-6 ~]$ ls
AmazonEC2App-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-90-6 ~]$ sudo yum install java-17*
Last metadata expiration check: 0:09:49 ago on Tue Jul 25 18:53:35 2023.
Dependencies resolved.
===== Package Arch Version Repo =====
Installing:
java-17-amazon-corretto x86_64 1:17.0.8+7-1.amzn2023.1 amazonlinux 188 k
java-17-amazon-corretto-javadoc x86_64 1:17.0.8+7-1.amzn2023.1 amazonlinux 149 k
java-17-amazon-corretto-javadocs x86_64 1:17.0.8+7-1.amzn2023.1 amazonlinux 12 M
java-17-amazon-corretto-jmods x86_64 1:17.0.8+7-1.amzn2023.1 amazonlinux 69 M
Installing dependencies:
alsa-lib x86_64 1.2.7.2-1.amzn2023.0.2 amazonlinux 504 k
cairo x86_64 1.17.4-3.amzn2023.0.2 amazonlinux 674 k
dhcpcd x86_64 1:17.16-1.amzn2023.0.2 amazonlinux 672 k

```

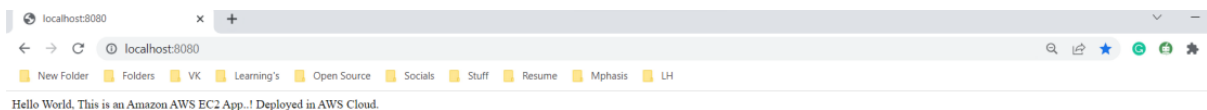
```
ec2-user@ip-172-31-90-6:~$ java -version
libpng-2:1.6.37-10.amzn2023.0.2.x86_64
libxcb-1.13.1-7.amzn2023.0.2.x86_64
pixman-0.40.0-3.amzn2023.0.3.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch

Complete!
[ec2-user@ip-172-31-90-6 ~]$ java -version
openjdk version "17.0.8" 2023-07-18 LTS
OpenJDK Runtime Environment Corretto-17.0.8.7.1 (build 17.0.8+7-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.8.7.1 (build 17.0.8+7-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-90-6 ~]$ java -jar AmazonEC2App-0.0.1-SNAPSHOT.jar

  ____ _
 / ___ \| | | |
/ /   \| |_| |
\ \   /| | | |
 \___/\_| |_|_|_|
:: Spring Boot :: (v3.1.2)

2023-07-25T19:04:16.669Z INFO 25552 --- [main] com.example.AmazonEc2AppApplication : Starting AmazonEc2AppApplication v0.0.1-SNAPSHOT using
Java 17.0.8 with PID 25552 (/home/ec2-user/AmazonEC2App-0.0.1-SNAPSHOT.jar started by ec2-user in /home/ec2-user)
2023-07-25T19:04:16.677Z INFO 25552 --- [main] com.example.AmazonEc2AppApplication : No active profile set, falling back to 1 default profi
le: "default"
2023-07-25T19:04:19.208Z INFO 25552 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-07-25T19:04:19.234Z INFO 25552 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-07-25T19:04:19.234Z INFO 25552 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.11]
2023-07-25T19:04:19.558Z INFO 25552 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-07-25T19:04:19.565Z INFO 25552 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed i
n 2734 ms
2023-07-25T19:04:21.009Z INFO 25552 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context pa
th ''
2023-07-25T19:04:21.076Z INFO 25552 --- [main] com.example.AmazonEc2AppApplication : Started AmazonEc2AppApplication in 5.372 seconds (proc
ess running for 6.733)
```

✓ Local Host 8080



✓ Deploy Spring Boot App on Cloud (Accessing using Public IP Address)

