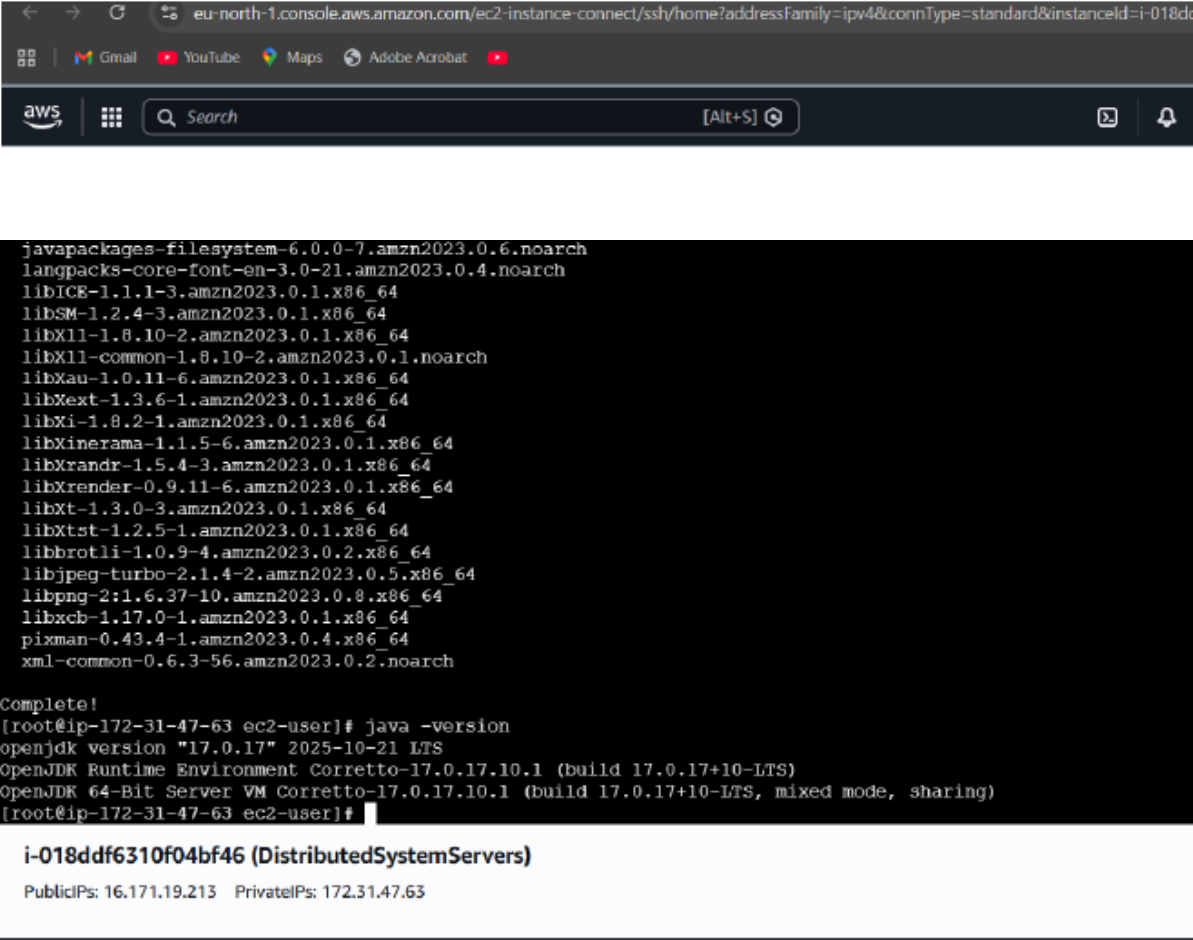


NAME : DHARINI ROLL NO :2023115065

ESTABLISHING CLOUD CONNECTION :




The screenshot shows the AWS Management Console interface. At the top, the browser address bar displays the URL: eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-018dd... Below the address bar, there are navigation tabs for Gmail, YouTube, Maps, and Adobe Acrobat. The main content area is a terminal window showing the output of a command. The output lists various system packages and their versions, followed by the command 'java -version' and its output. Below the terminal output, there is a section for the instance 'i-018dd6310f04bf46 (DistributedSystemServers)' showing its PublicIPs and PrivateIPs.

```
javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch
langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch
libICE-1.1.1-3.amzn2023.0.1.x86_64
libSM-1.2.4-3.amzn2023.0.1.x86_64
libX11-1.8.10-2.amzn2023.0.1.x86_64
libX11-common-1.8.10-2.amzn2023.0.1.noarch
libXau-1.0.11-6.amzn2023.0.1.x86_64
libXext-1.3.6-1.amzn2023.0.1.x86_64
libXi-1.8.2-1.amzn2023.0.1.x86_64
libXinerama-1.1.5-6.amzn2023.0.1.x86_64
libXrandr-1.5.4-3.amzn2023.0.1.x86_64
libXrender-0.9.11-6.amzn2023.0.1.x86_64
libXt-1.3.0-3.amzn2023.0.1.x86_64
libXtst-1.2.5-1.amzn2023.0.1.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64
libpng-2:1.6.37-10.amzn2023.0.8.x86_64
libxcb-1.17.0-1.amzn2023.0.1.x86_64
pixman-0.43.4-1.amzn2023.0.4.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch

Complete!
[root@ip-172-31-47-63 ec2-user]# java -version
openjdk version "17.0.17" 2025-10-21 LTS
OpenJDK Runtime Environment Corretto-17.0.17.10.1 (build 17.0.17+10-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.17.10.1 (build 17.0.17+10-LTS, mixed mode, sharing)
[root@ip-172-31-47-63 ec2-user]#
```

**i-018dd6310f04bf46 (DistributedSystemServers)**  
PublicIPs: 16.171.19.213 PrivateIPs: 172.31.47.63

RPC\_SERVER.PY :



The screenshot shows a terminal window with the following output:

```
[ec2-user@ip-172-31-47-63 ~]$ nano rcp_server.py
[ec2-user@ip-172-31-47-63 ~]$ python3 rcp_server.py
RPC Student Service running on port 8000 (Cloud Ready)...
[SERVER] Fetching details
152.57.92.150 - - [17/Jan/2026 18:21:31] "POST / HTTP/1.1" 200 -
[SERVER]
152.57.92.150 - - [17/Jan/2026 18:21:32] "POST / HTTP/1.1" 200 -
[SERVER]
152.57.92.150 - - [17/Jan/2026 18:21:32] "POST / HTTP/1.1" 200 -
```

RPC\_CLIENT.PY :

```

PS C:\Users\kf_20\OneDrive\Desktop\3 sem> python rpc_client.py
Connecting to cloud RPC
===== TEXT ANALYSIS REPORT =====
Original Text      : Never Odd Or Even
Total Length      : 17
Word Count        : 4
Vowel Count       : 6
Consonant Count   : 8
Uppercase Letters : 3
Lowercase Letters : 11
-----
Palindrome Check   : YES, it is a palindrome
===== END OF REPORT =====

```

RMI\_SERVER.JAVA :

```

^C[ec2-user@ip-172-31-47-63 RMISStudentApp]$ javac StudentService.java StudentServiceImpl.java RMIServer.java
[ec2-user@ip-172-31-47-63 RMISStudentApp]$ java RMIServer
RMI Student Service running on port 1099...
[SERVER] Sent
[SERVER] Grade calculated

```

RMI\_CLIENT.JAVA :

```

PS C:\Users\kf_20\OneDrive\Desktop\3 sem> java rmi_client.java
Connecting To Cloud RMI
===== STUDENT PERFORMANCE REPORT =====
Total Students   : 4
Highest Marks    : 92
Lowest Marks     : 45
Average Marks    : 75.25
-----
Student Grades:
Student S101 -> Grade B
Student S102 -> Grade B
Student S103 -> Grade A
Student S104 -> Grade Fail
===== END OF REPORT =====

```