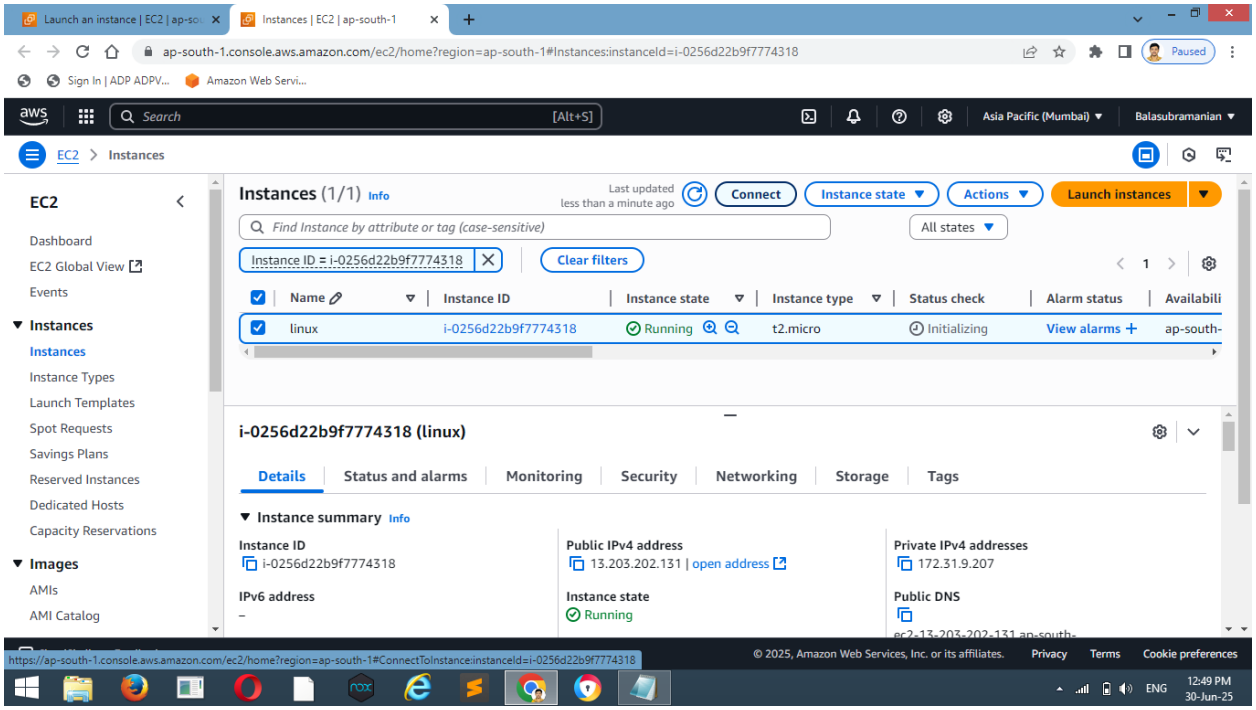
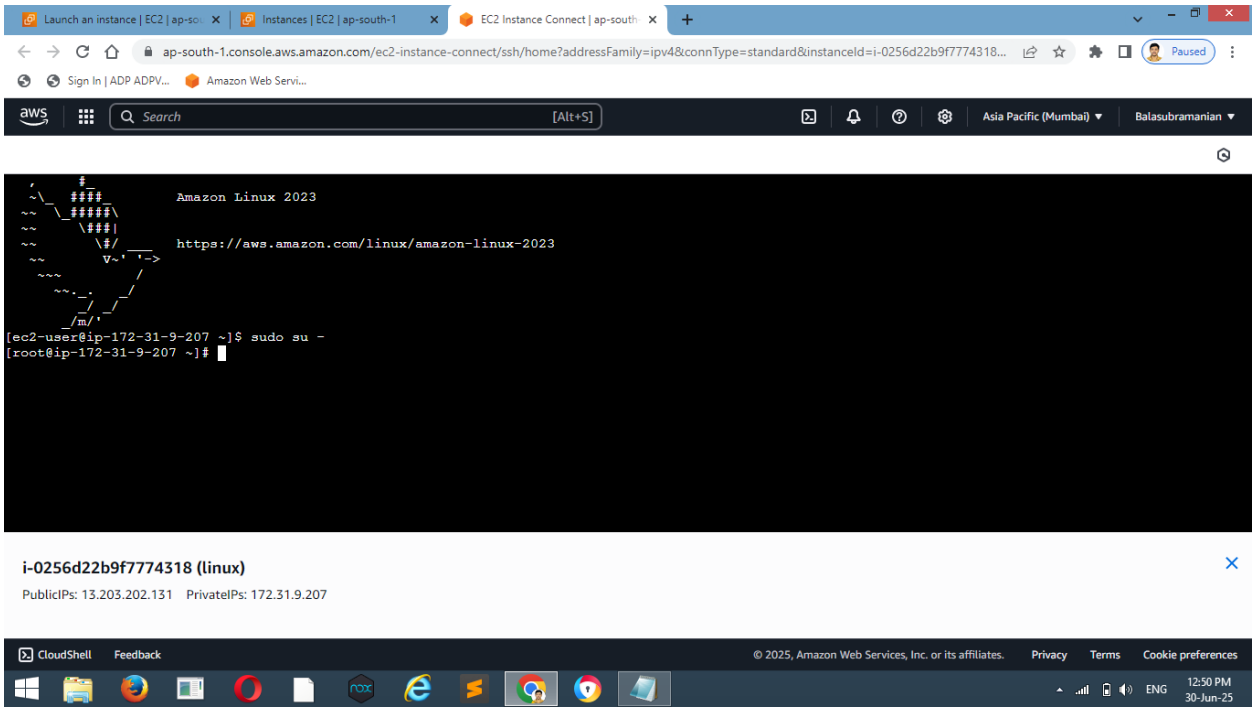
GRADLE BUILD PROJECT

SUMMARY: AUTOMATED JAVA PROJECT BUILDS USING GRADLE ON A CLOUD SERVER

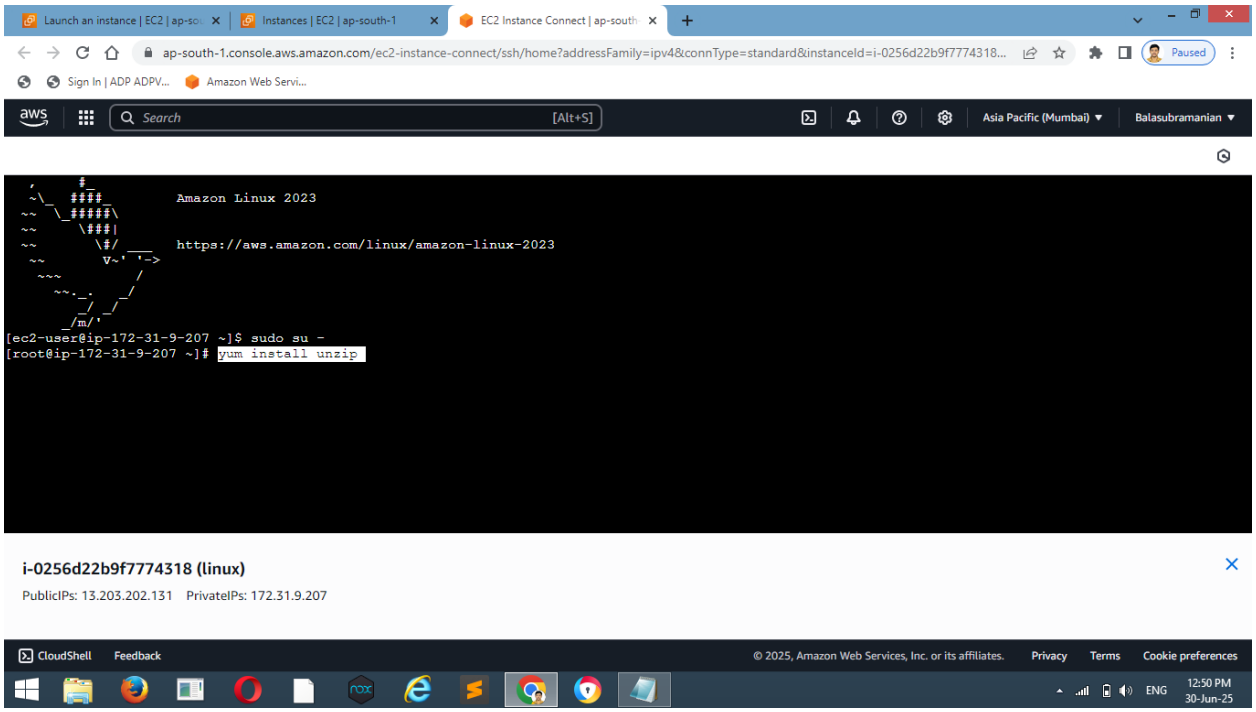
STEP 1: FIRST GO TO EC2 AND START INSTANCE RUNNING MODE AND CONNECT

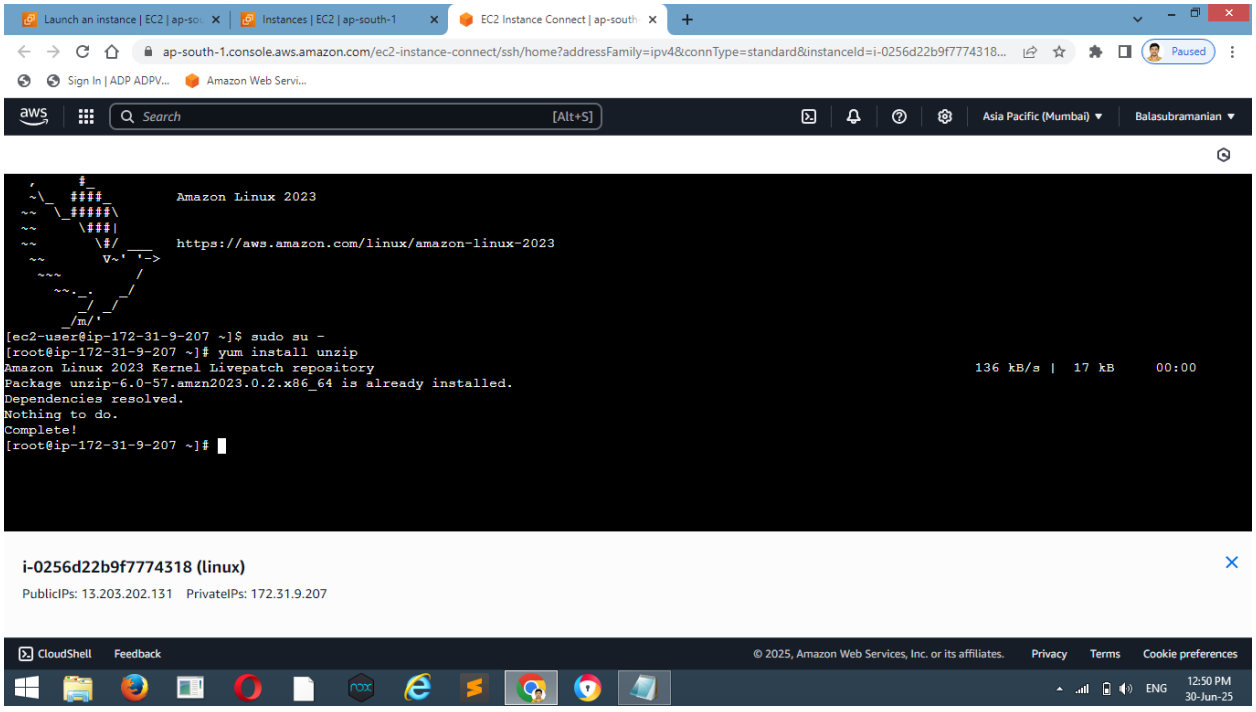


STEP 2: TO LOGIN ROOT USER

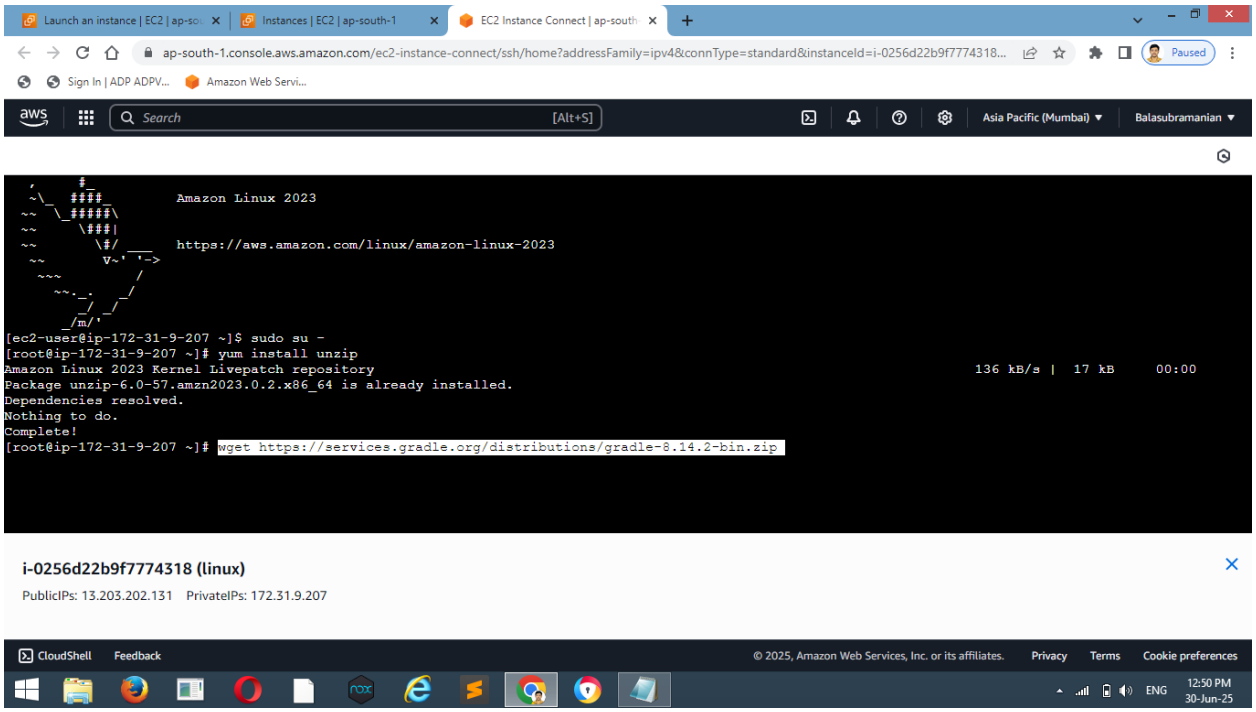


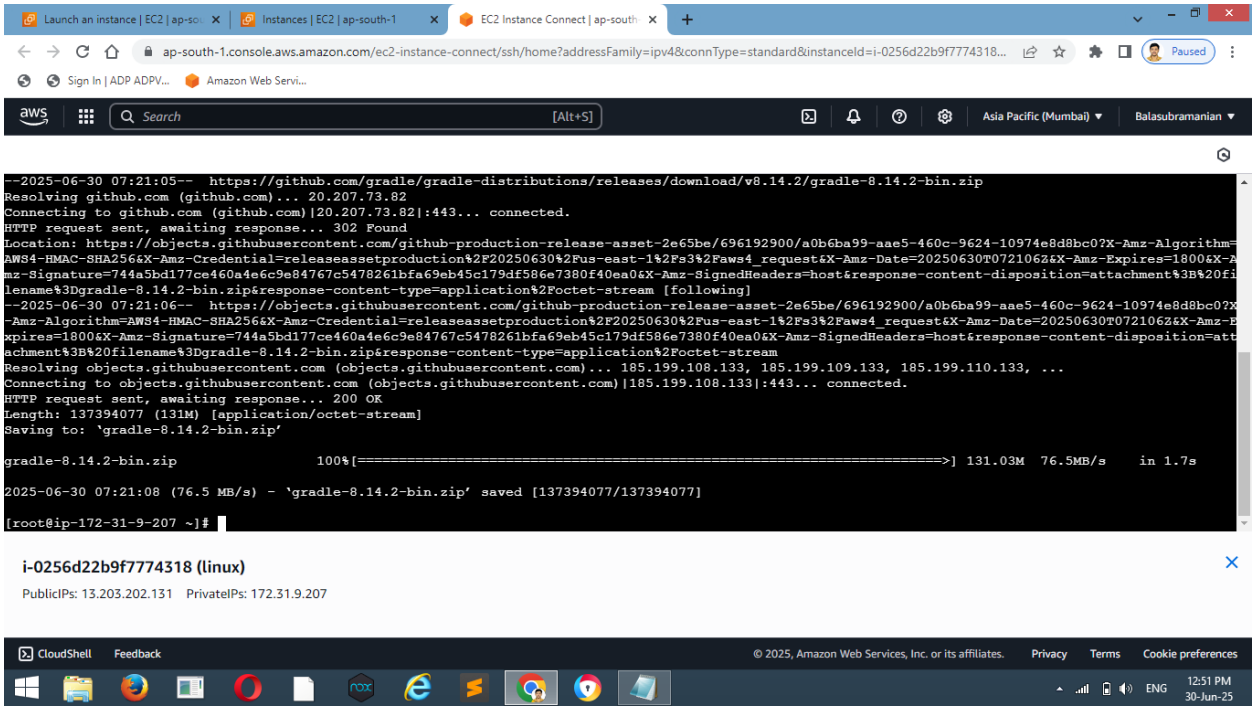
STEP 3: TO INSTALL UNZIP IN LINUX



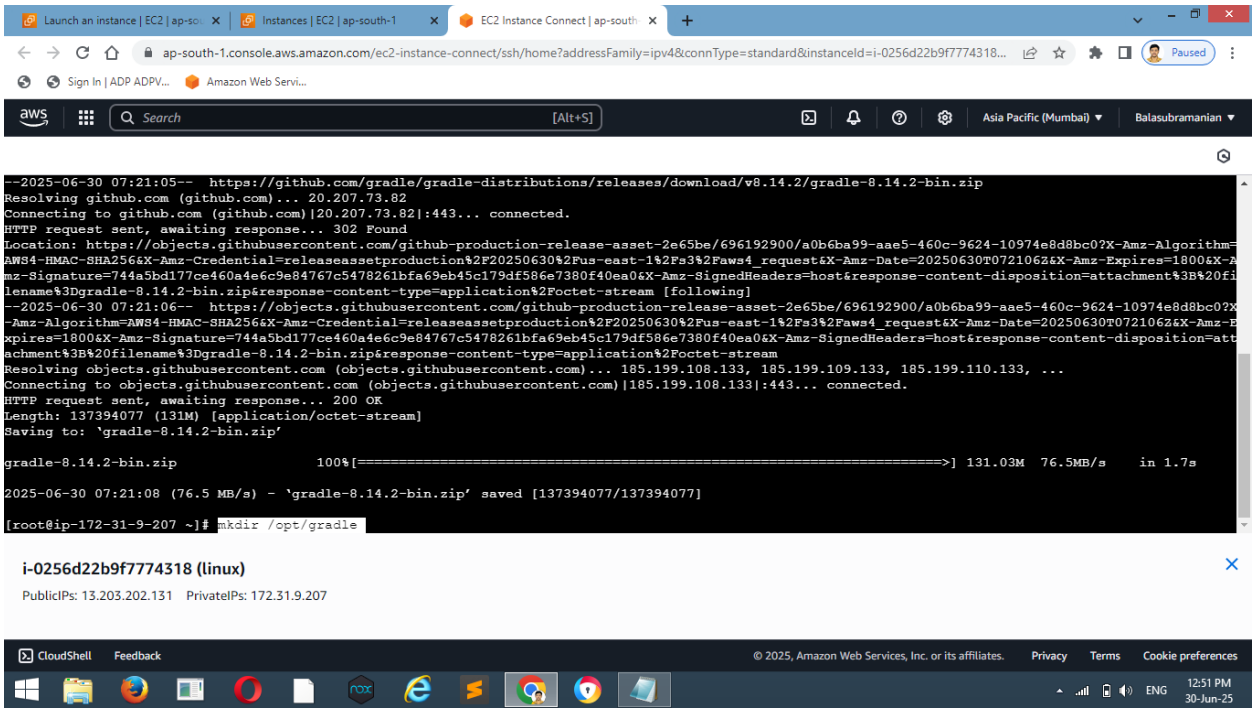


STEP 4: TO INSTALL GRADLE IN LINUX

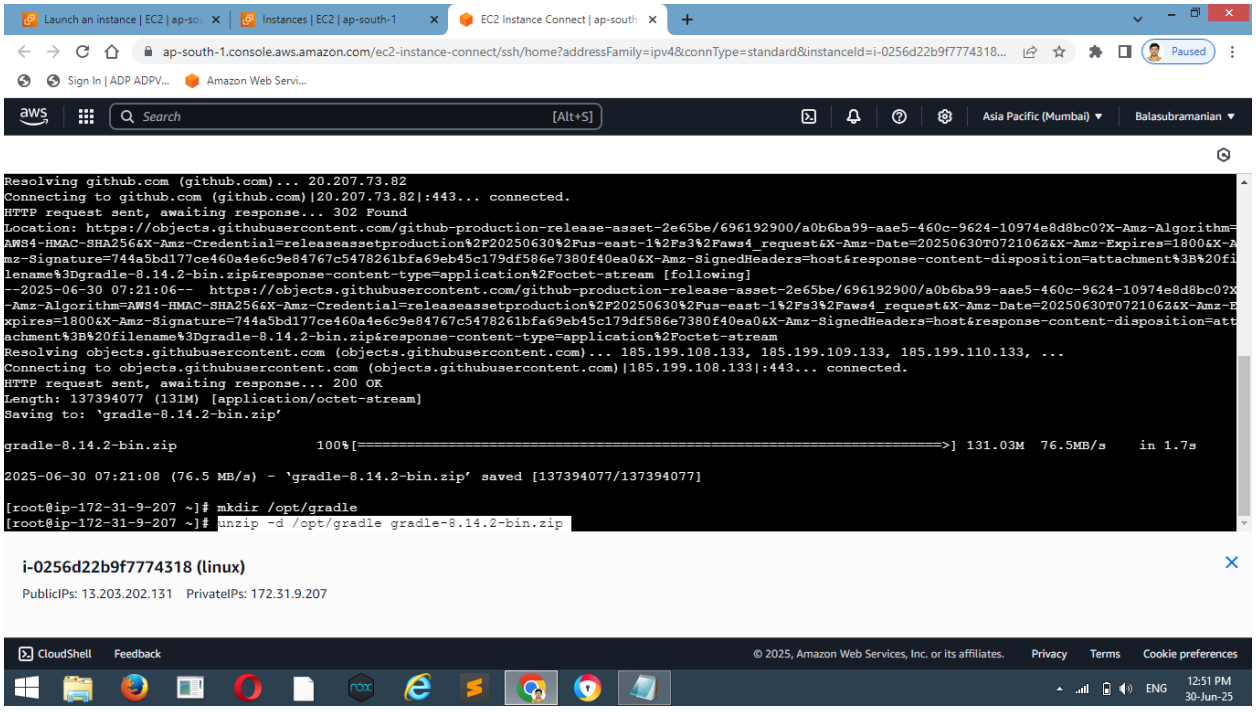


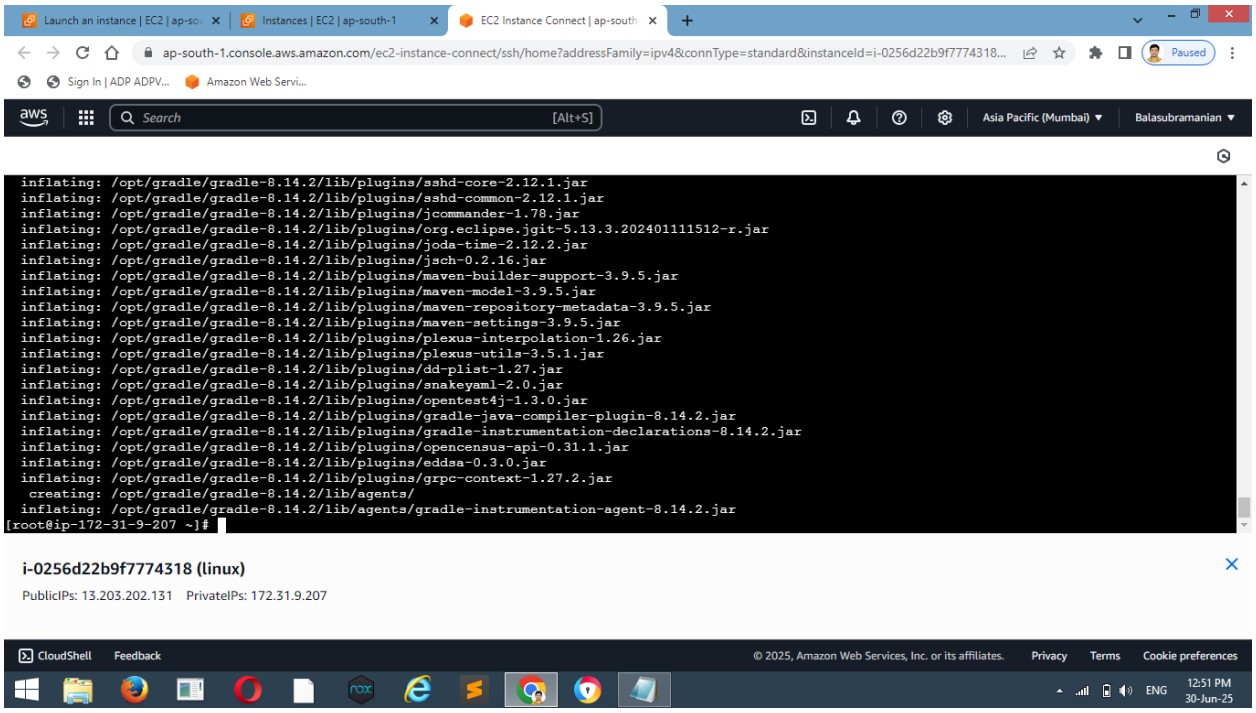


STEP 5: TO CREATE FOLDER NAME AS “GRADLE” IN OPT

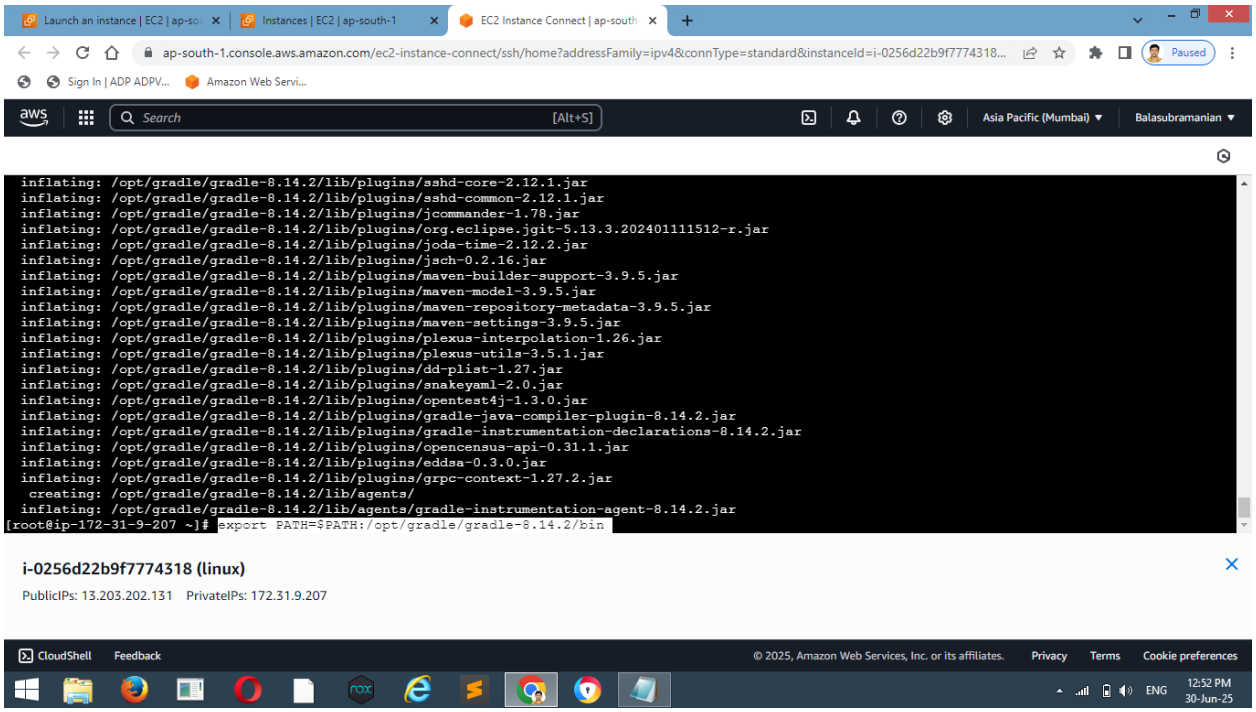


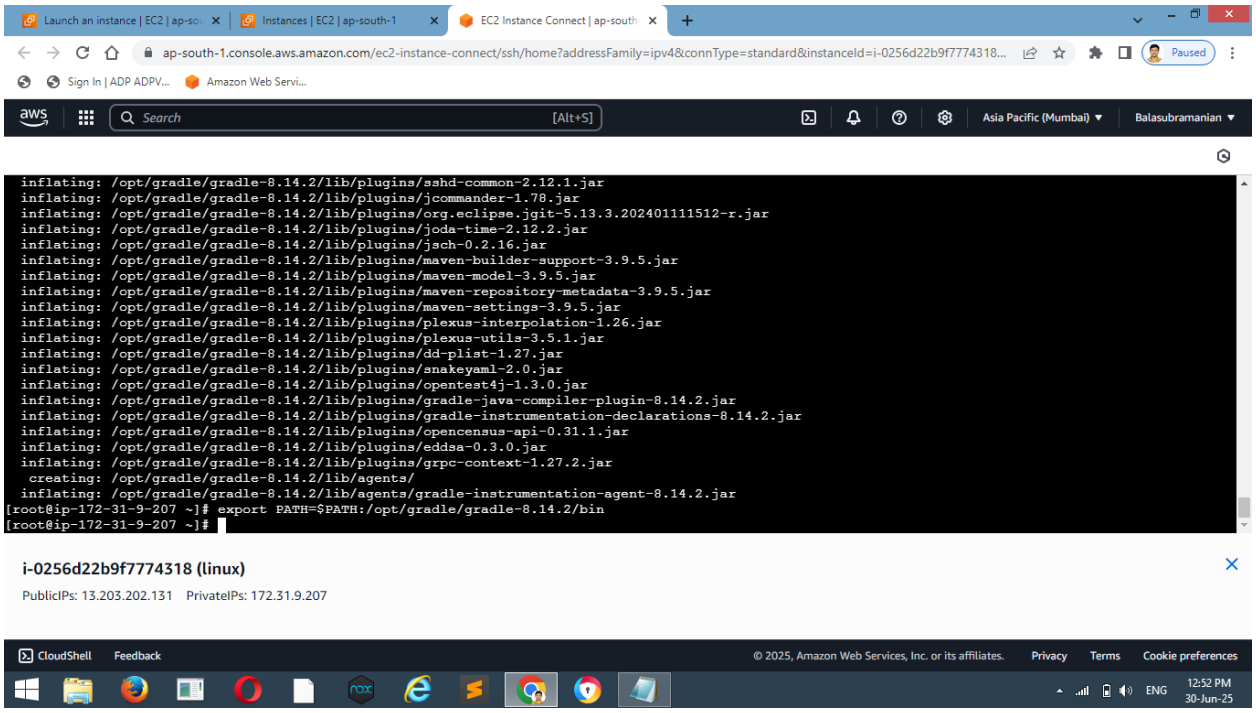
STEP 6: TO UNZIP THE GRADLE INSTALLING FILE



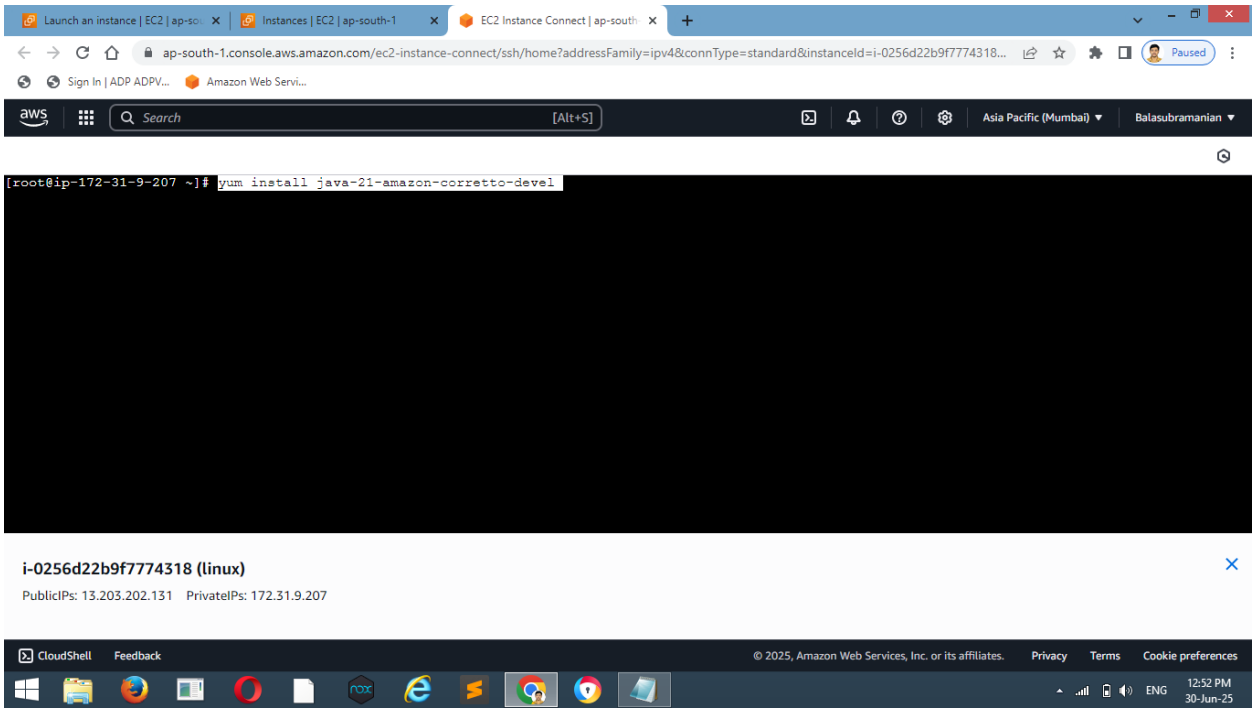


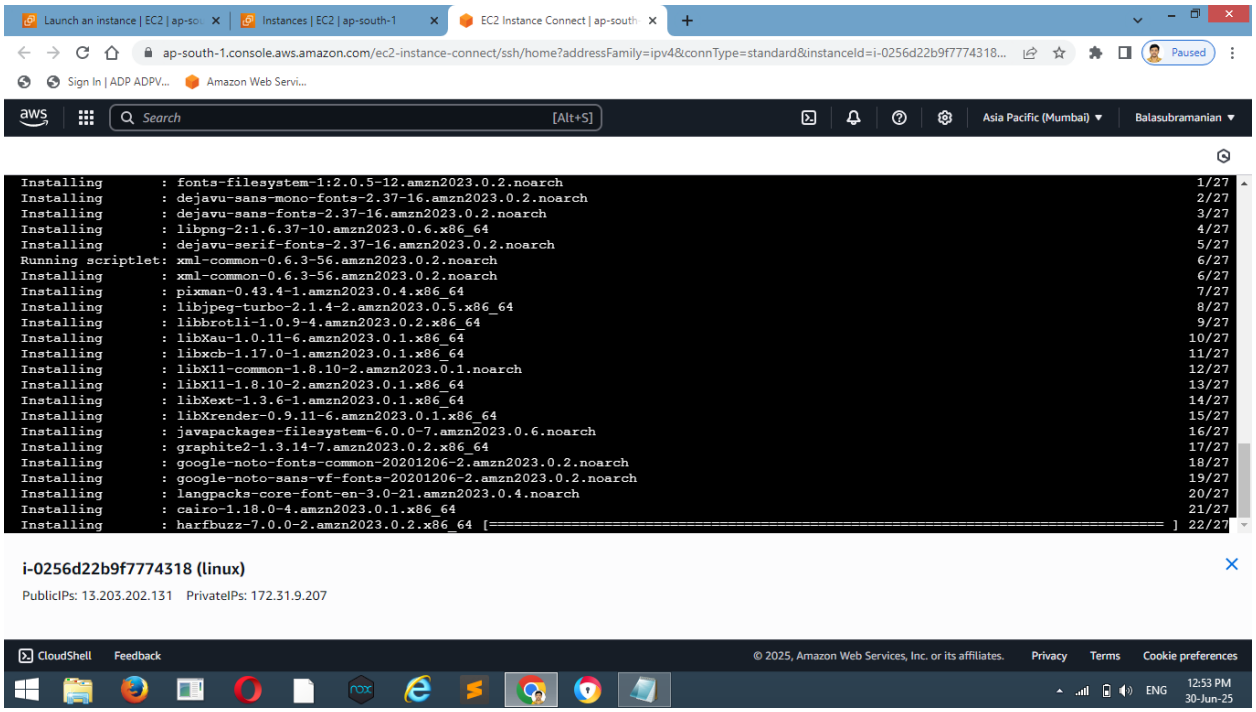
STEP 7: TO SETUP EXPORT PATH WAY





STEP 8: TO INSTALL JAVA IN LINUX




Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Balasubramanian
Installing : fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch 1/27
Installing : dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch 2/27
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Installing : libpng-2:1.6.37-10.amzn2023.0.6.x86_64 4/27
Installing : dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch 5/27
Running scriptlet: xml-common-0.6.3-56.amzn2023.0.2.noarch 6/27
Installing : xml-common-0.6.3-56.amzn2023.0.2.noarch 6/27
Installing : pixman-0.43.4-1.amzn2023.0.4.x86_64 7/27
Installing : libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64 8/27
Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 9/27
Installing : libXau-1.0.11-6.amzn2023.0.1.x86_64 10/27
Installing : libxcb-1.17.0-1.amzn2023.0.1.x86_64 11/27
Installing : libX11-common-1.8.10-2.amzn2023.0.1.noarch 12/27
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Installing : libXext-1.3.6-1.amzn2023.0.1.x86_64 14/27
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Installing : langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch 20/27
Installing : cairo-1.18.0-4.amzn2023.0.1.x86_64 21/27
Installing : harfbuzz-7.0.0-2.amzn2023.0.2.x86_64 22/27
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
Feedback
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Terms
Cookie preferences
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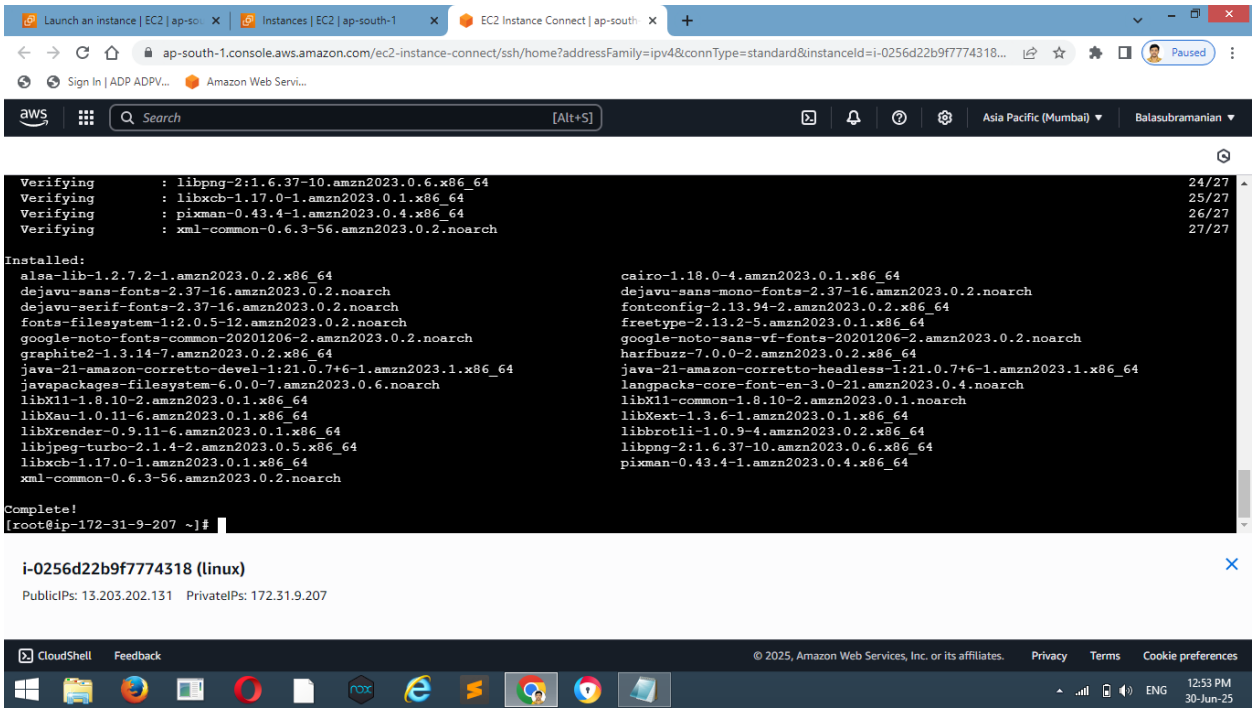
12:53 PM
30-Jun-25


Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
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Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
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Asia Pacific (Mumbai)
Balasubramanian
Verifying : libpng-2:1.6.37-10.amzn2023.0.6.x86_64 24/27
Verifying : libxcb-1.17.0-1.amzn2023.0.1.x86_64 25/27
Verifying : pixman-0.43.4-1.amzn2023.0.4.x86_64 26/27
Verifying : xml-common-0.6.3-56.amzn2023.0.2.noarch 27/27
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dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch
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freetype-2.13.2-5.amzn2023.0.1.x86_64
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java-21-amazon-corretto-headless-1:21.0.7+6-1.amzn2023.1.x86_64
javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch
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libXrender-0.9.11-6.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.amzn2023.0.6.x86_64
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pixman-0.43.4-1.amzn2023.0.4.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch
Complete!
[root@ip-172-31-9-207 ~]#
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
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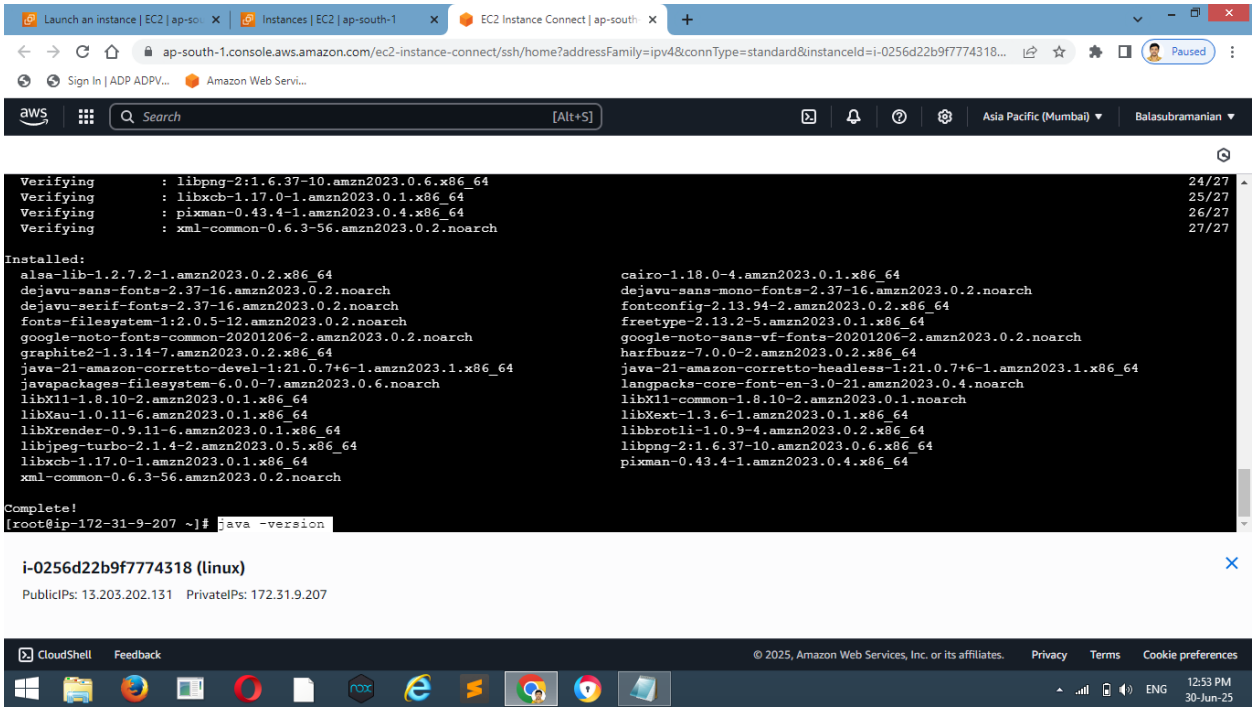
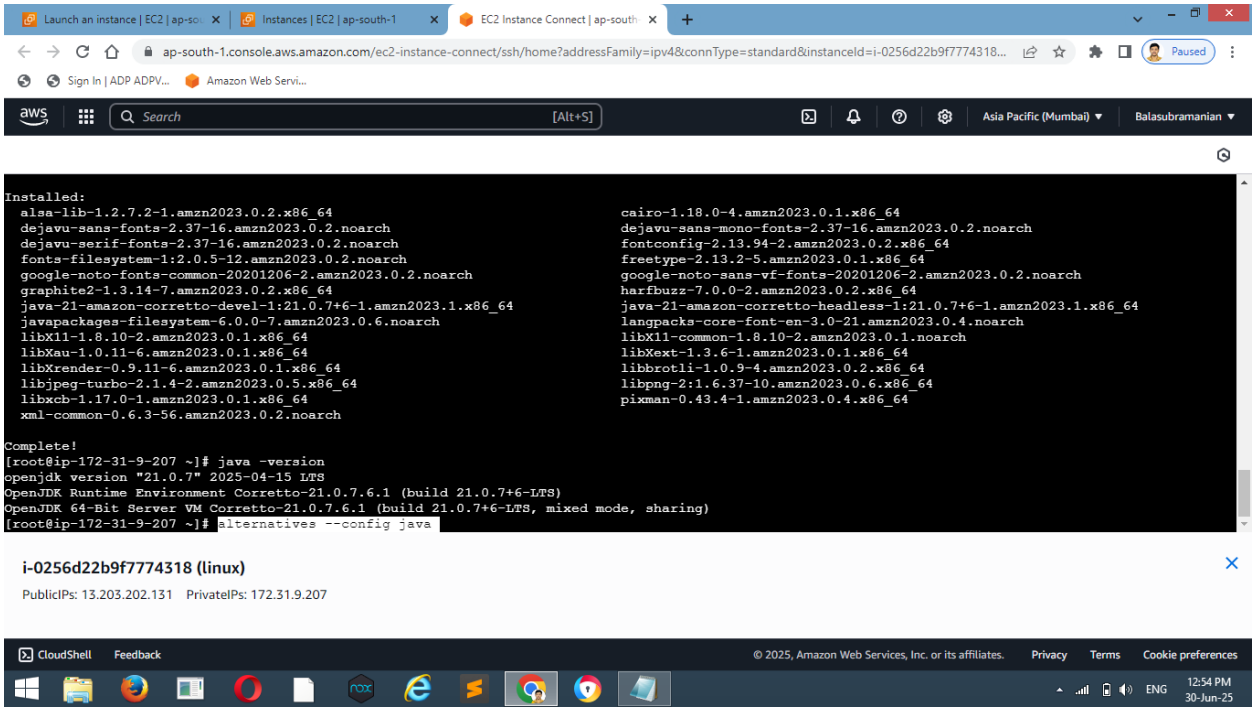
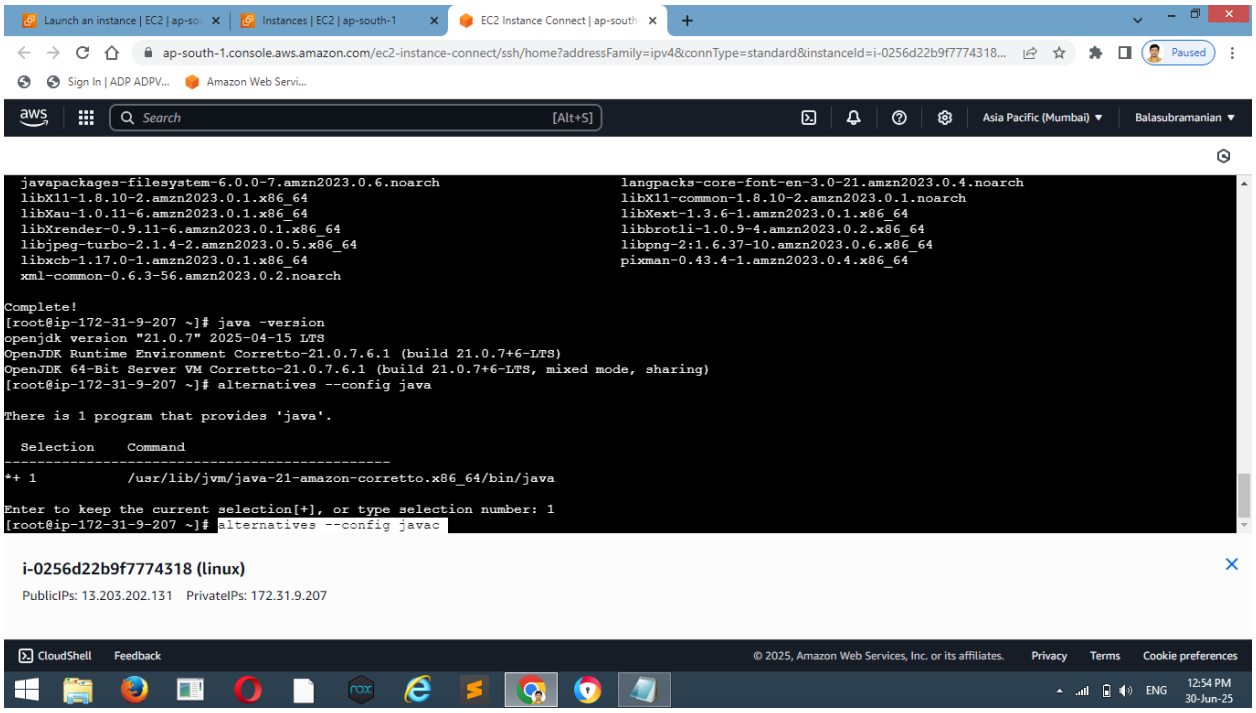
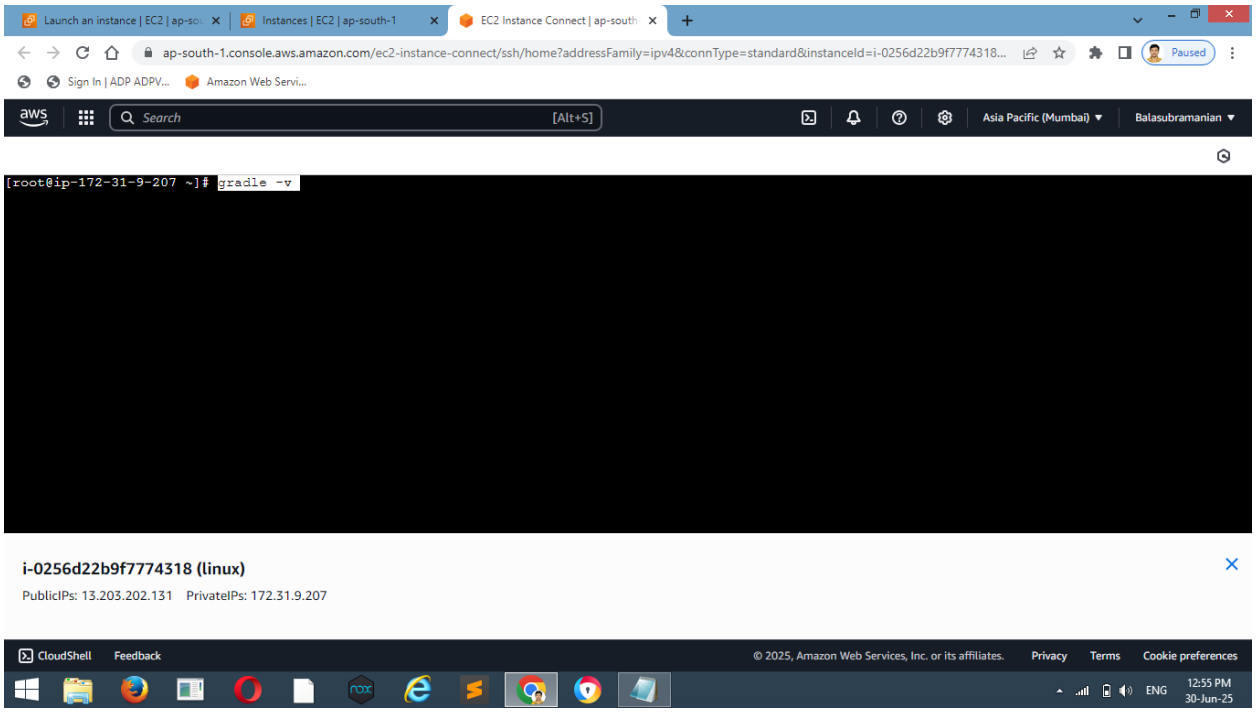
STEP 9: TO CHECK JAVA VERSION AND TO SETUP CONFIG JAVA AND ALSO CONFIG JAVA COMPILER

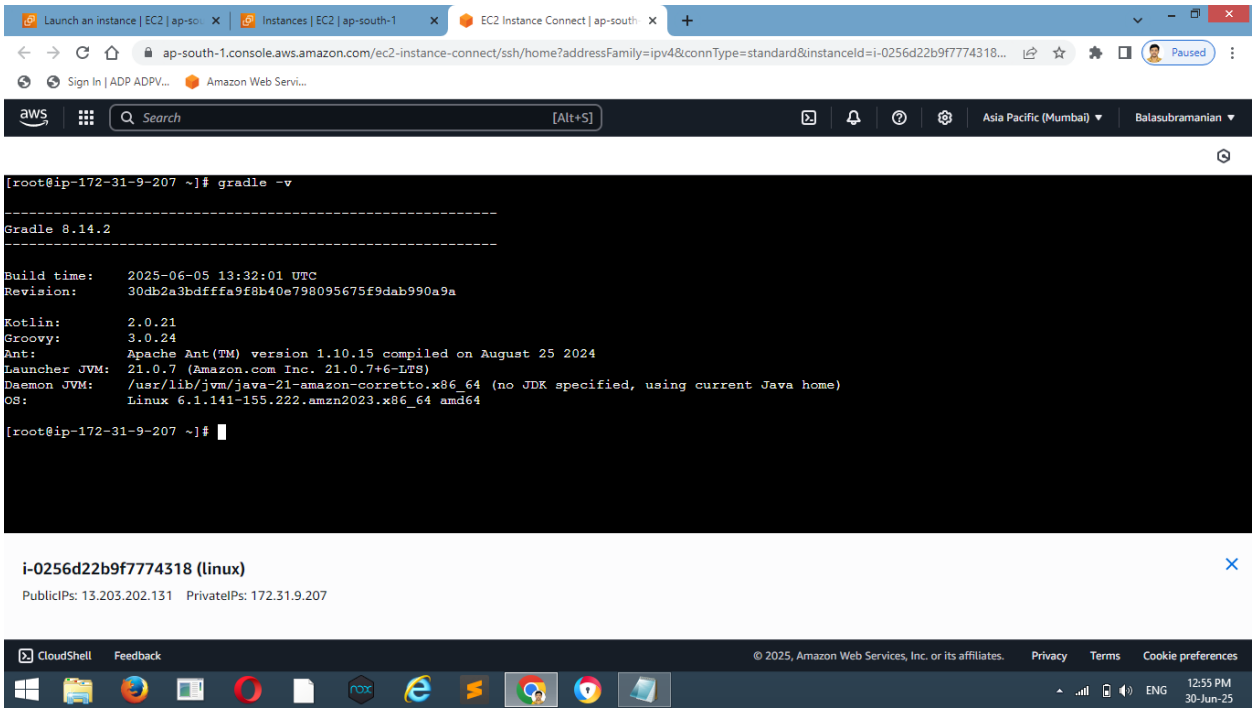




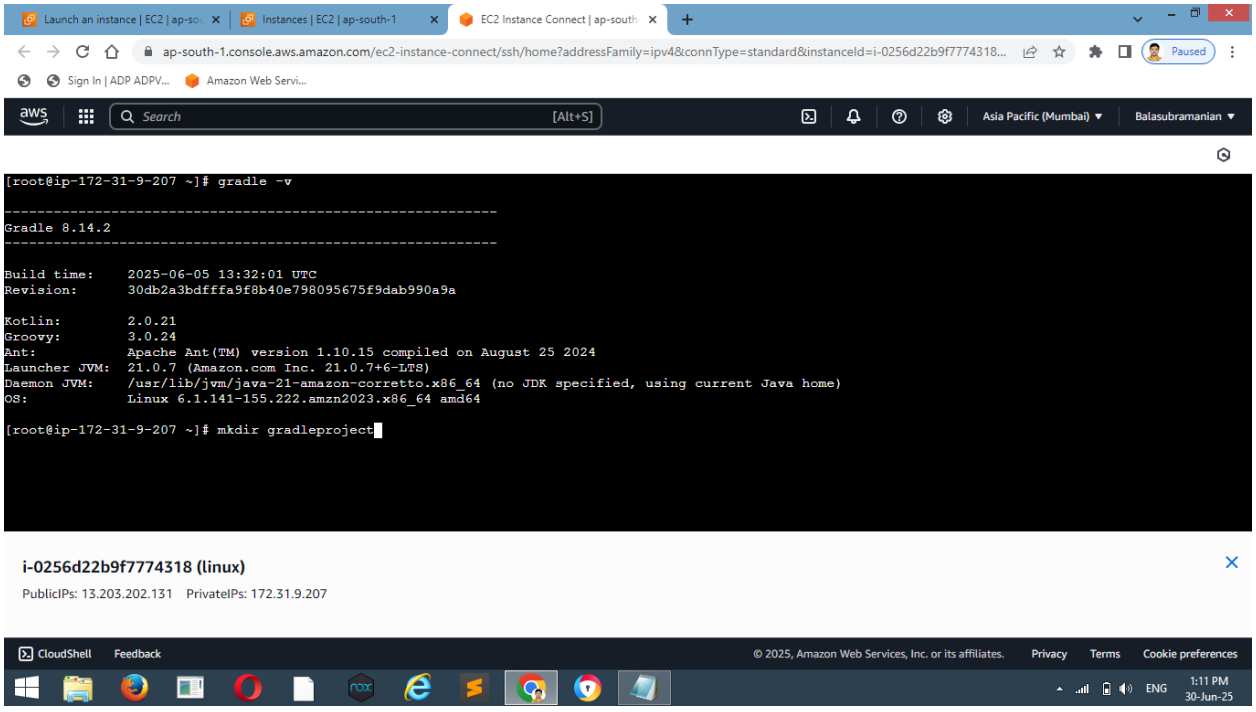


STEP 10: TO CHECK THE GRADLE VERSION

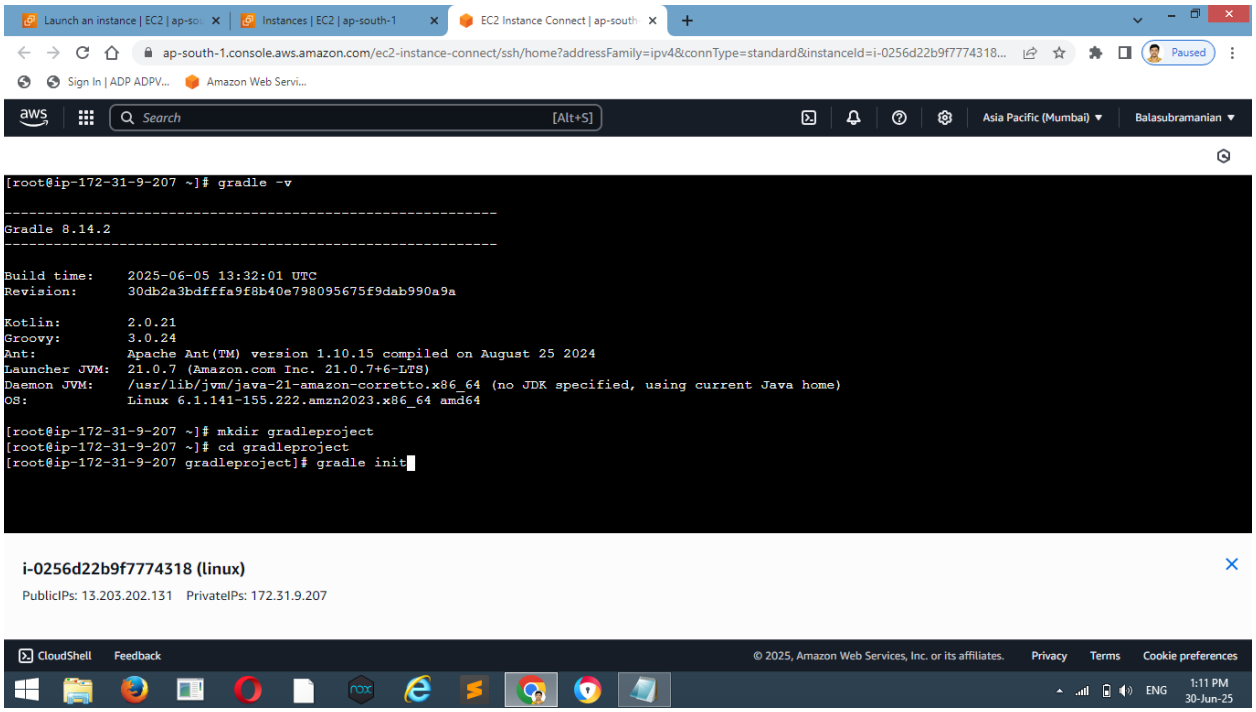


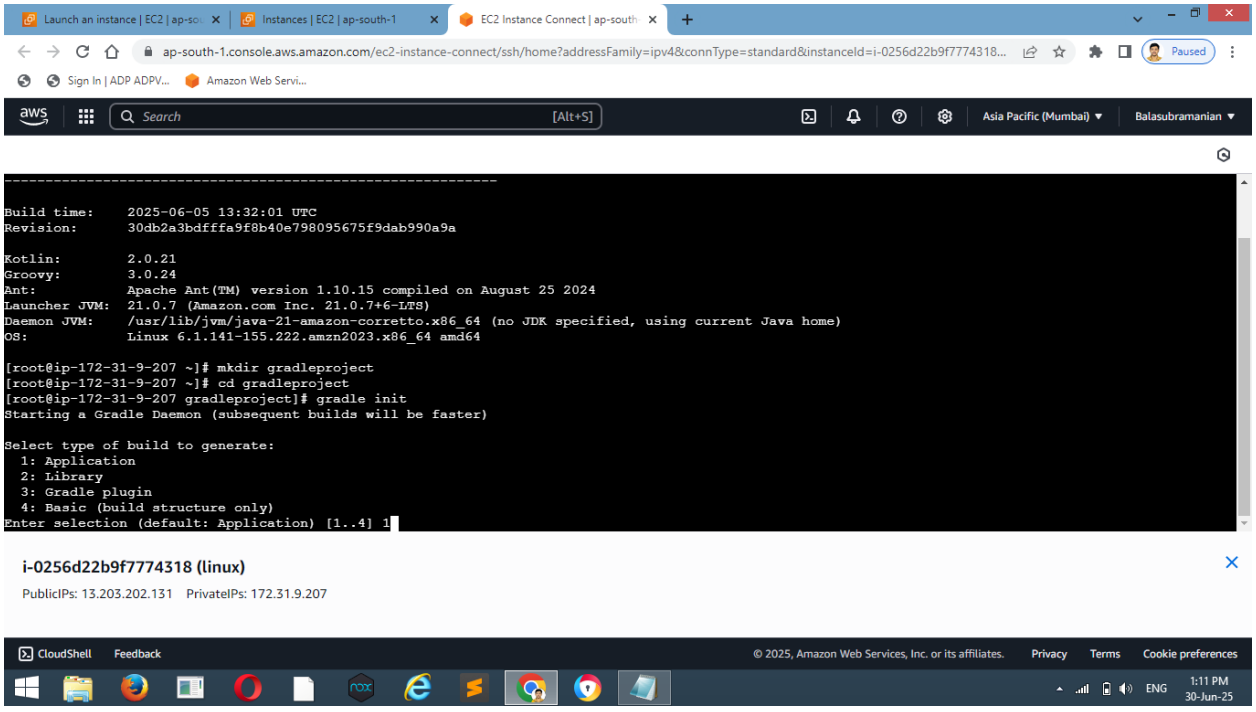


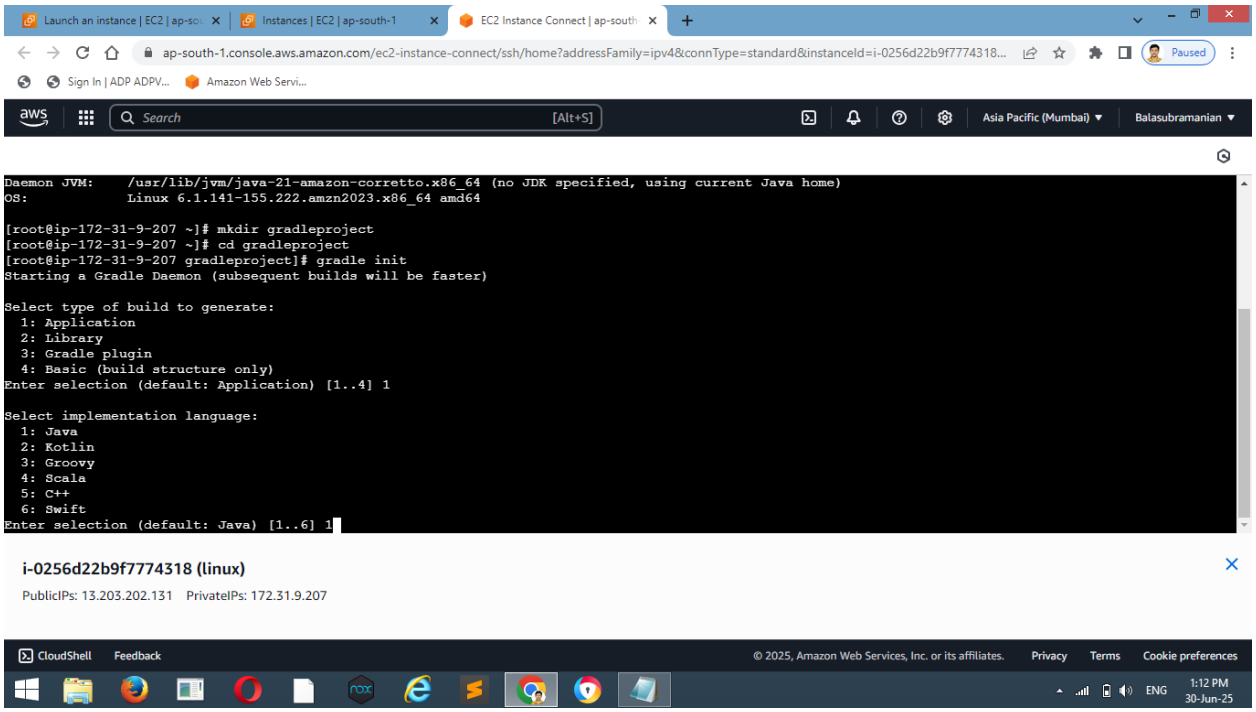
STEP 11: TO CREATE DIRECTORY NAME AS “GRADLEPROJECT”



STEP 12: TO GRADLE INIT PROCESS






Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Balasubramanian
Daemon JVM: /usr/lib/jvm/java-21-amazon-corretto.x86_64 (no JDK specified, using current Java home)
OS: Linux 6.1.141-155.222.amzn2023.x86_64 amd64
[root@ip-172-31-9-207 ~]# mkdir gradleproject
[root@ip-172-31-9-207 ~]# cd gradleproject
[root@ip-172-31-9-207 gradleproject]# gradle init
Starting a Gradle Daemon (subsequent builds will be faster)
Select type of build to generate:
1: Application
2: Library
3: Gradle plugin
4: Basic (build structure only)
Enter selection (default: Application) [1..4] 1
Select implementation language:
1: Java
2: Kotlin
3: Groovy
4: Scala
5: C++
6: Swift
Enter selection (default: Java) [1..6] 1
i-0256d22b9f7774318 (linux)
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CloudShell
Feedback
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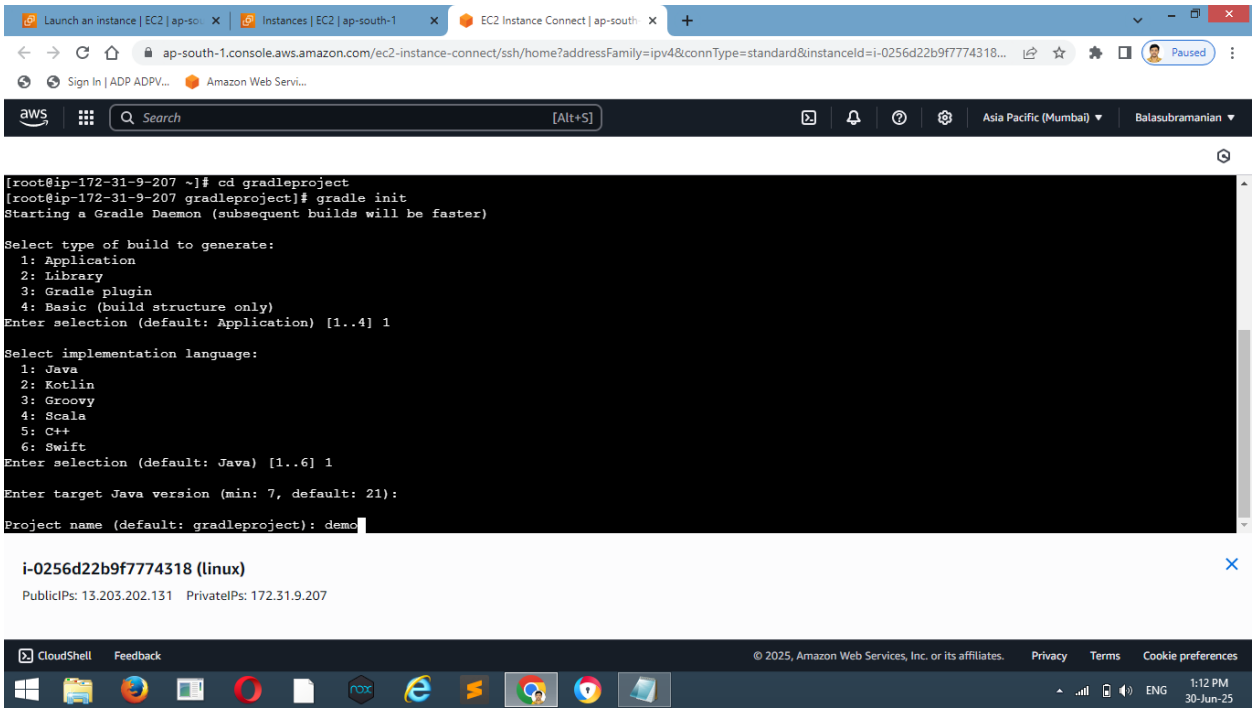
Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Balasubramanian
[root@ip-172-31-9-207 ~]# cd gradleproject
[root@ip-172-31-9-207 gradleproject]# gradle init
Starting a Gradle Daemon (subsequent builds will be faster)
Select type of build to generate:
1: Application
2: Library
3: Gradle plugin
4: Basic (build structure only)
Enter selection (default: Application) [1..4] 1
Select implementation language:
1: Java
2: Kotlin
3: Groovy
4: Scala
5: C++
6: Swift
Enter selection (default: Java) [1..6] 1
Enter target Java version (min: 7, default: 21):
Project name (default: gradleproject): demo
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
Feedback
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Privacy
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Cookie preferences
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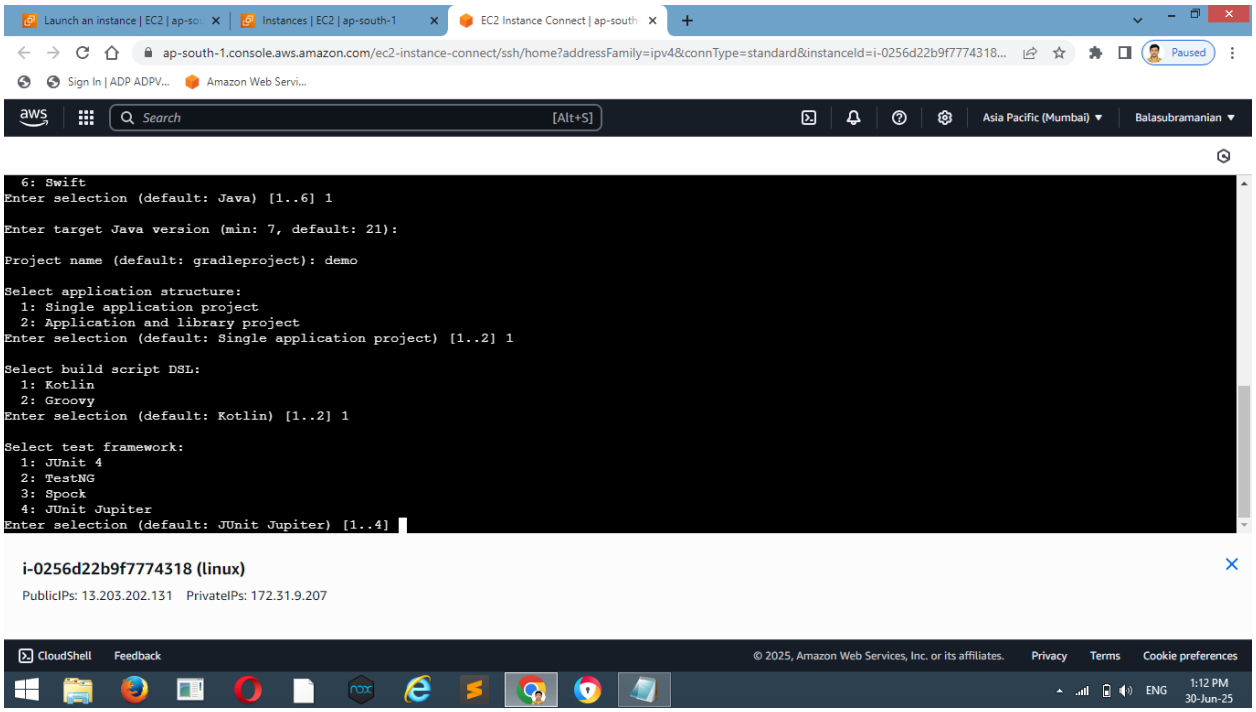
1:12 PM
30-Jun-25


Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Balasubramanian
6: Swift
Enter selection (default: Java) [1..6] 1
Enter target Java version (min: 7, default: 21):
Project name (default: gradleproject): demo
Select application structure:
1: Single application project
2: Application and library project
Enter selection (default: Single application project) [1..2] 1
Select build script DSL:
1: Kotlin
2: Groovy
Enter selection (default: Kotlin) [1..2] 1
Select test framework:
1: JUnit 4
2: TestNG
3: Spock
4: JUnit Jupiter
Enter selection (default: JUnit Jupiter) [1..4]
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
Feedback
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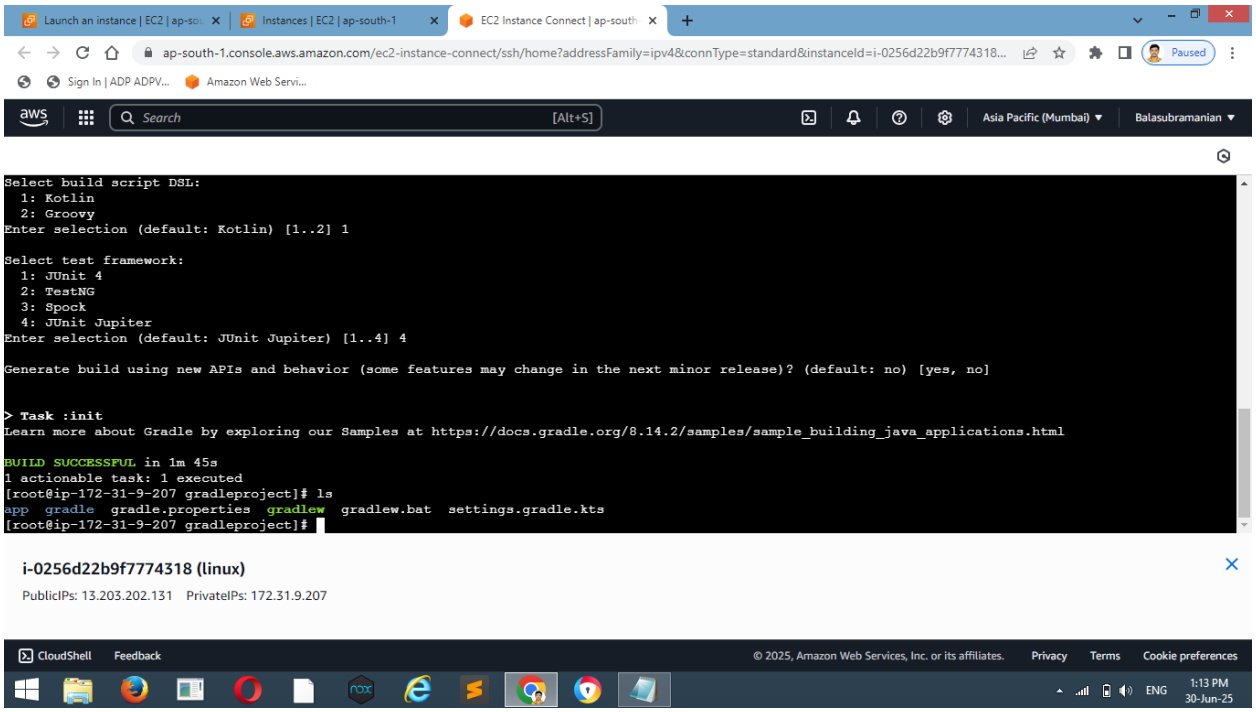
30-Jun-25


Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
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Select build script DSL:
1: Kotlin
2: Groovy
Enter selection (default: Kotlin) [1..2] 1
Select test framework:
1: JUnit 4
2: TestNG
3: Spock
4: JUnit Jupiter
Enter selection (default: JUnit Jupiter) [1..4] 4
Generate build using new APIs and behavior (some features may change in the next minor release)? (default: no) [yes, no]
> Task :init
Learn more about Gradle by exploring our Samples at https://docs.gradle.org/8.14.2/samples/sample_building_java_applications.html
BUILD SUCCESSFUL in 1m 45s
1 actionable task: 1 executed
[root@ip-172-31-9-207 gradleproject]# ls
app gradle gradle.properties gradlew gradlew.bat settings.gradle.kts
[root@ip-172-31-9-207 gradleproject]#
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
Feedback
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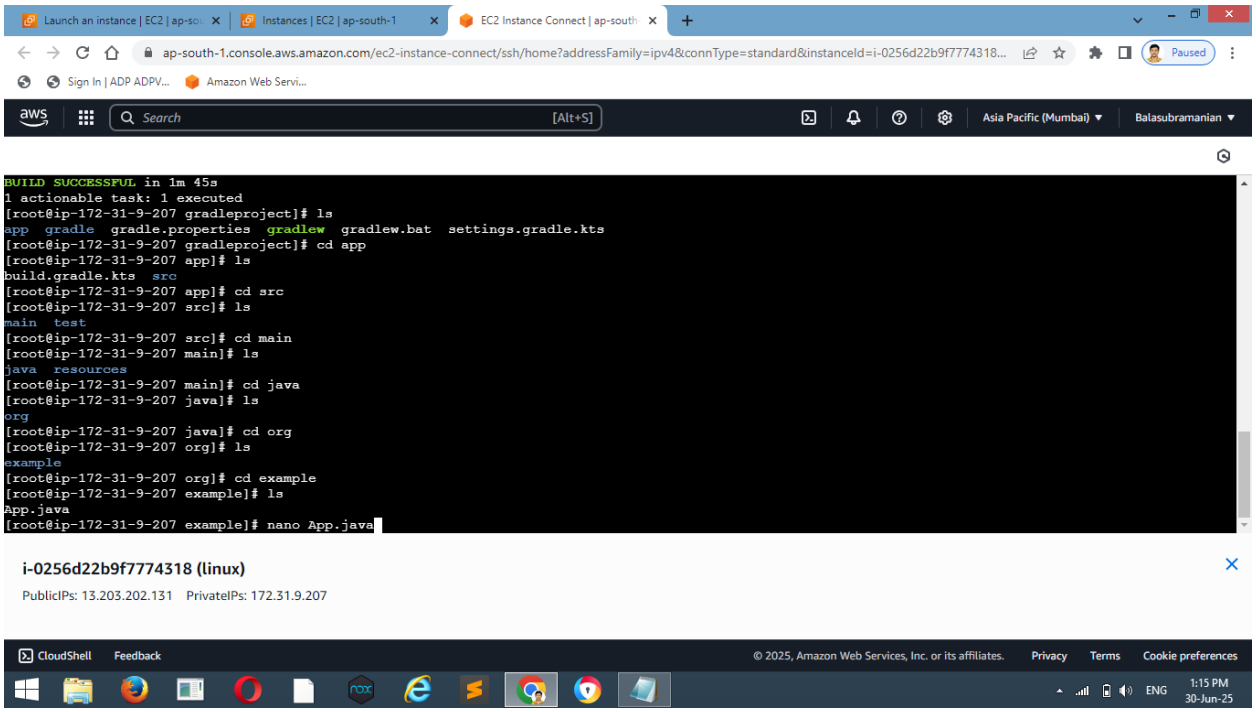
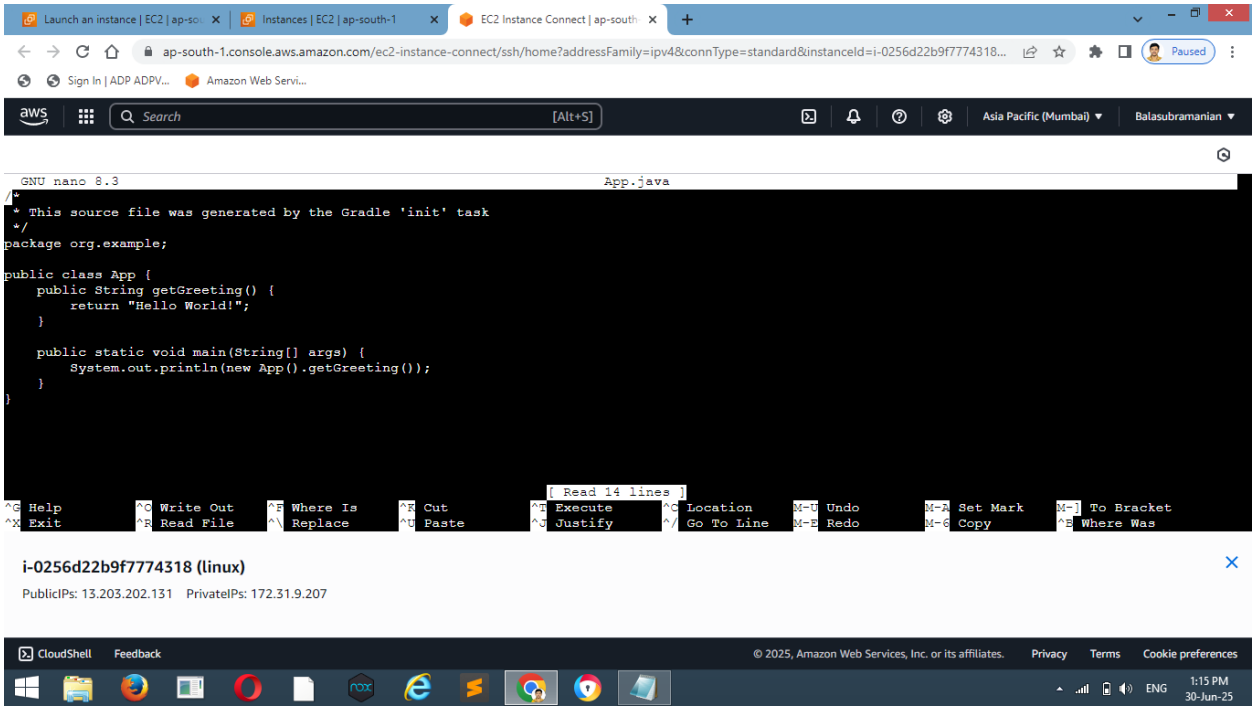
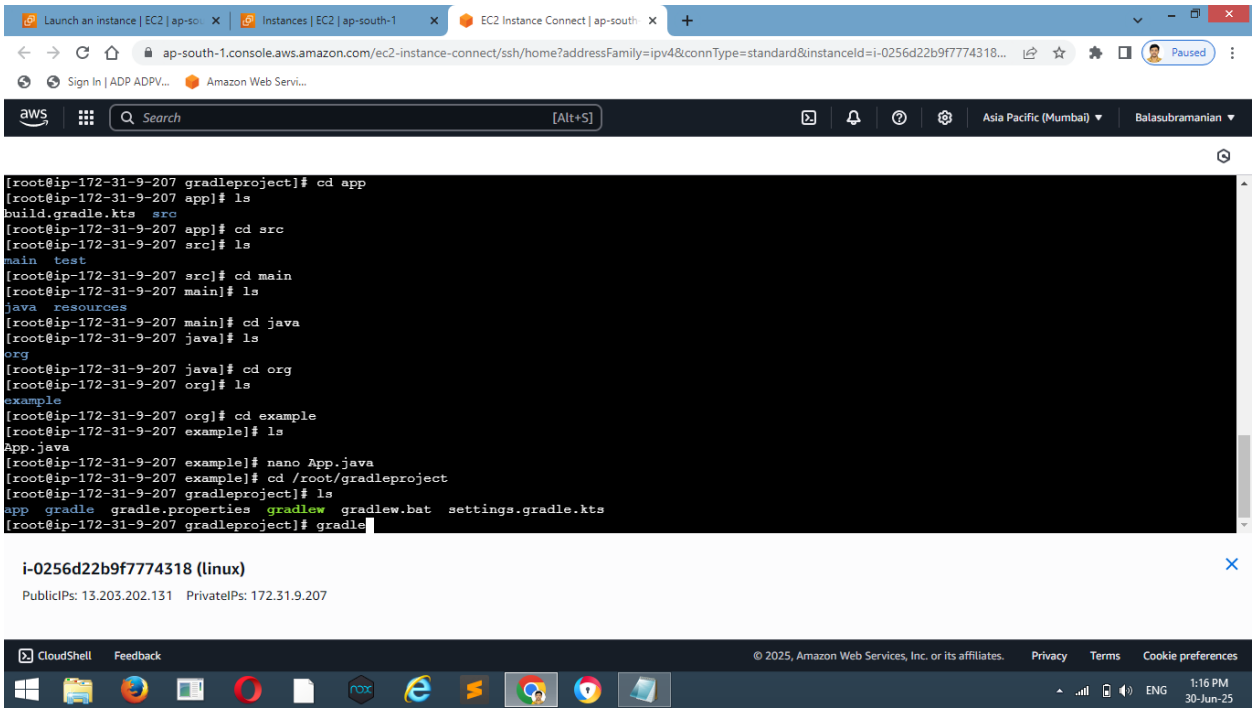
Privacy
Terms
Cookie preferences
ENG
1:13 PM
30-Jun-25

STEP 13: TO OPEN THE JAVA FILE

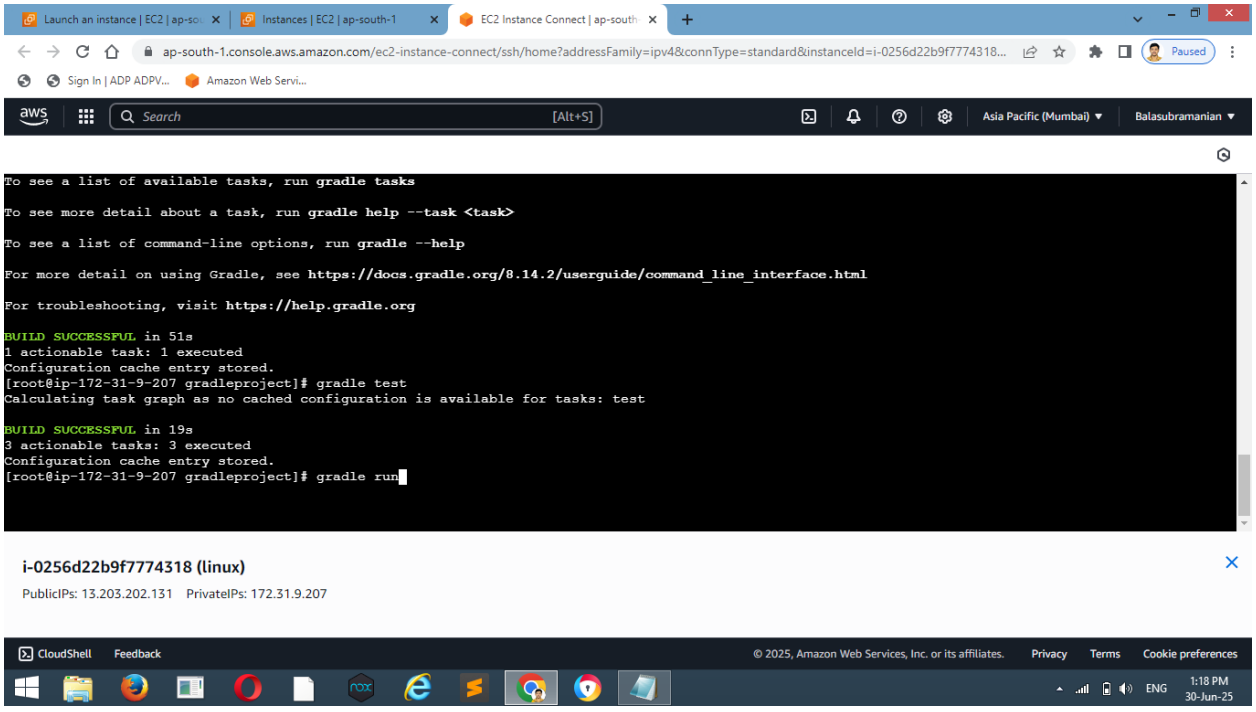


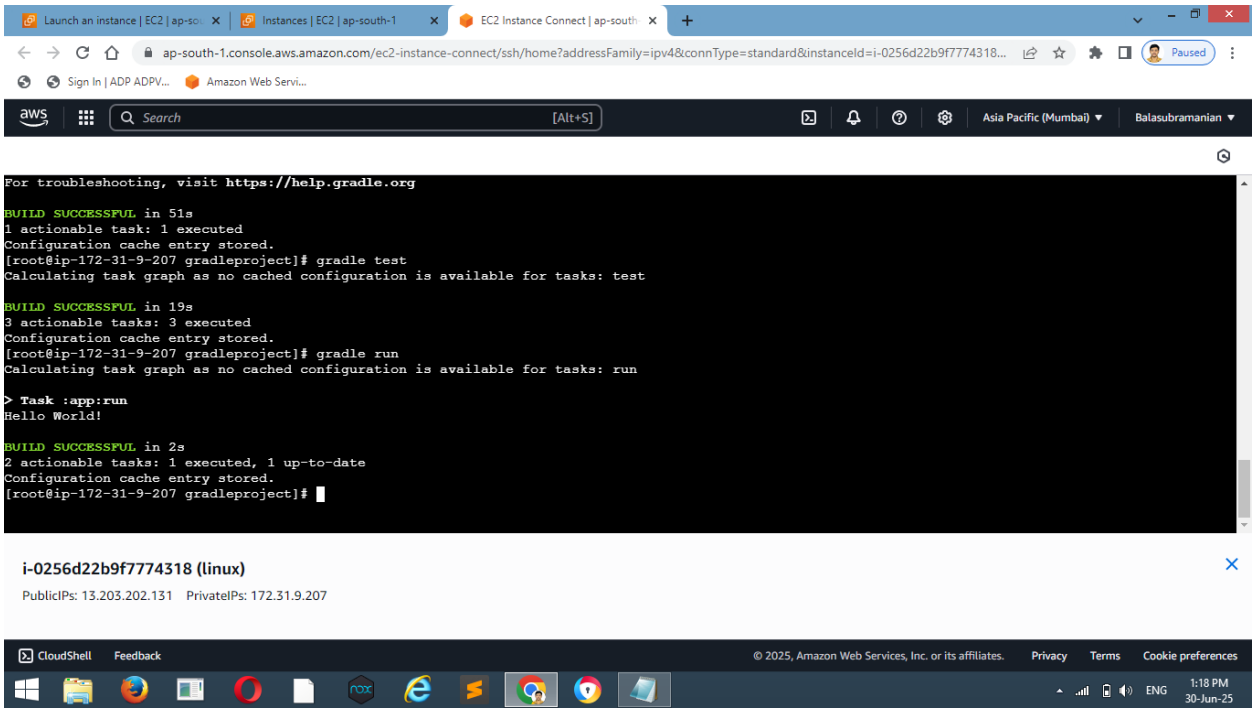


STEP 14: TO USE GRADLE COMMENT

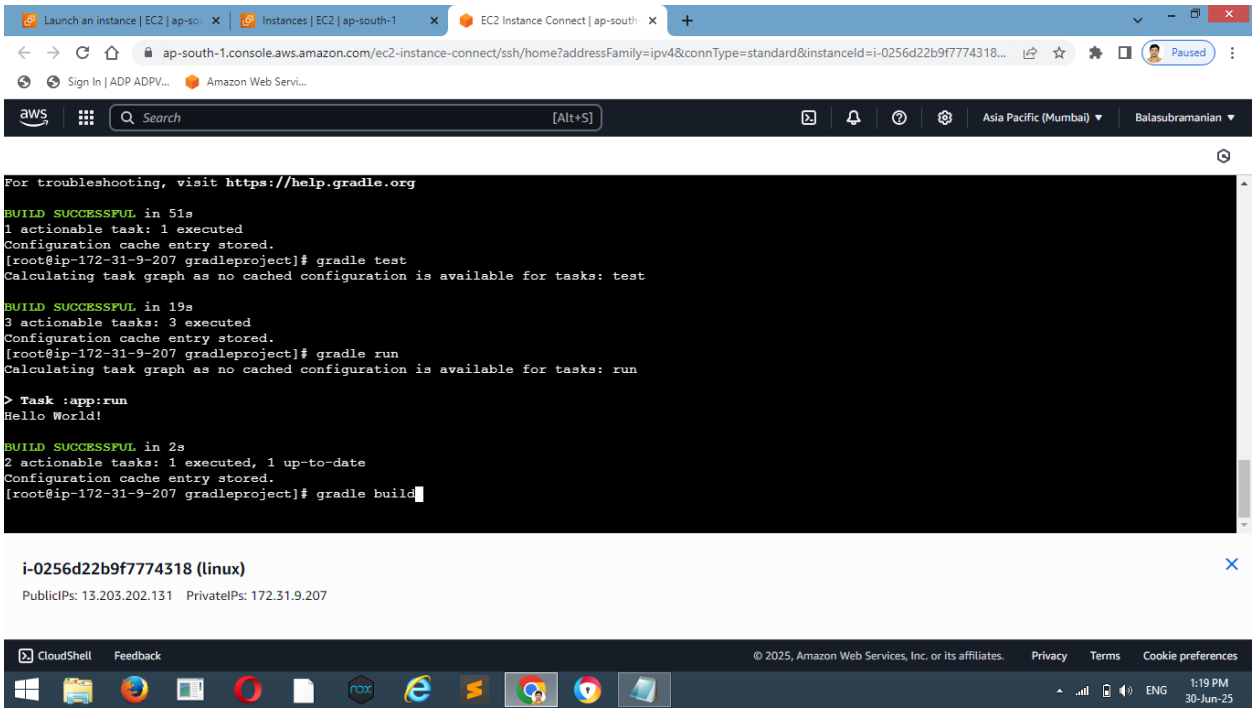


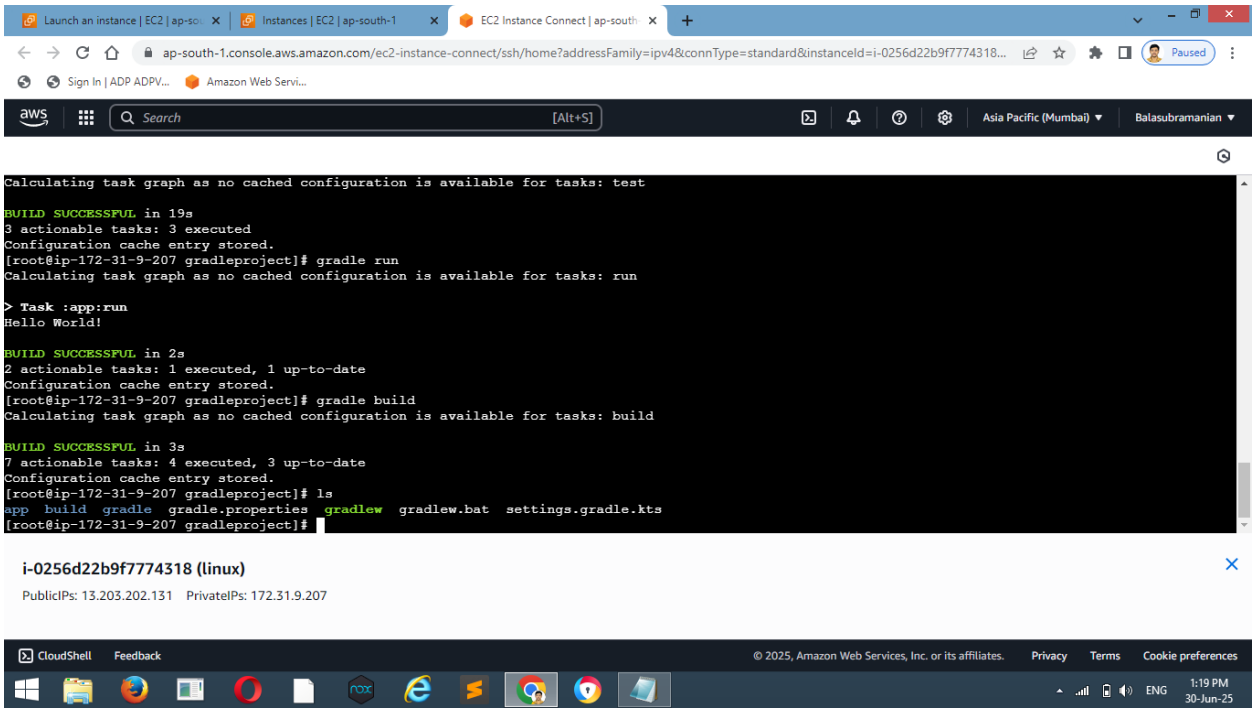
STEP 15: TO USE GRADLE RUN COMMENT



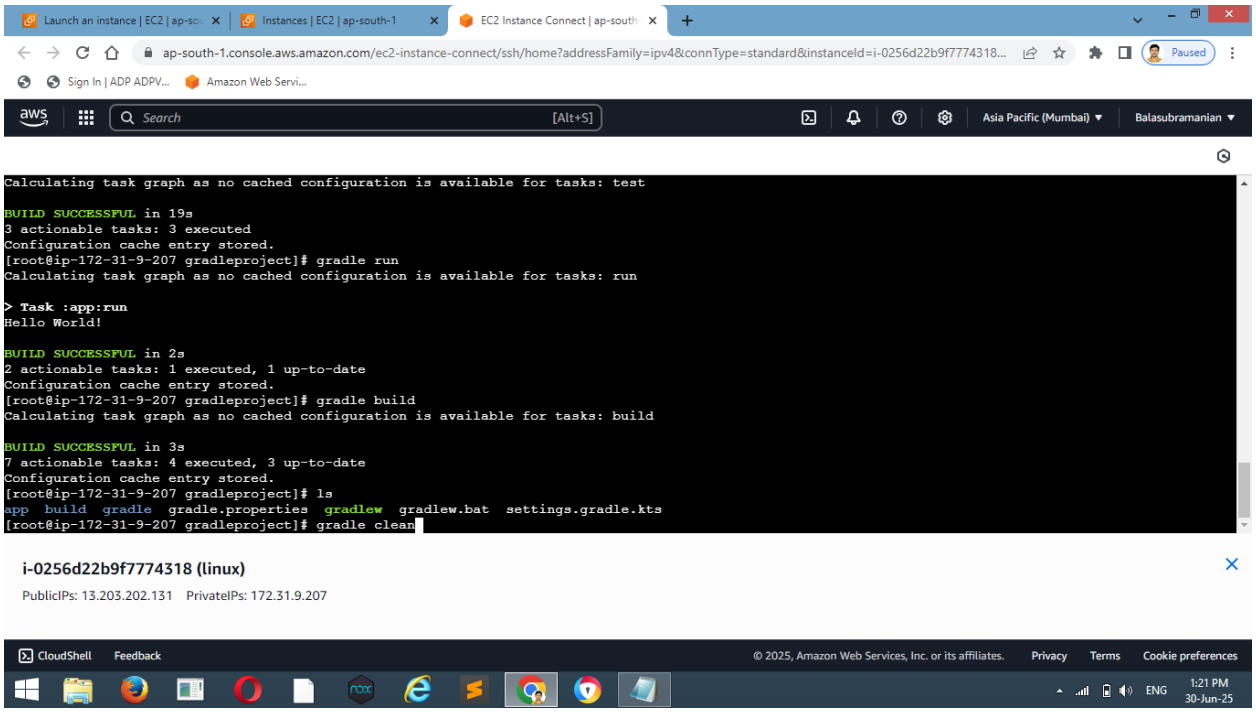


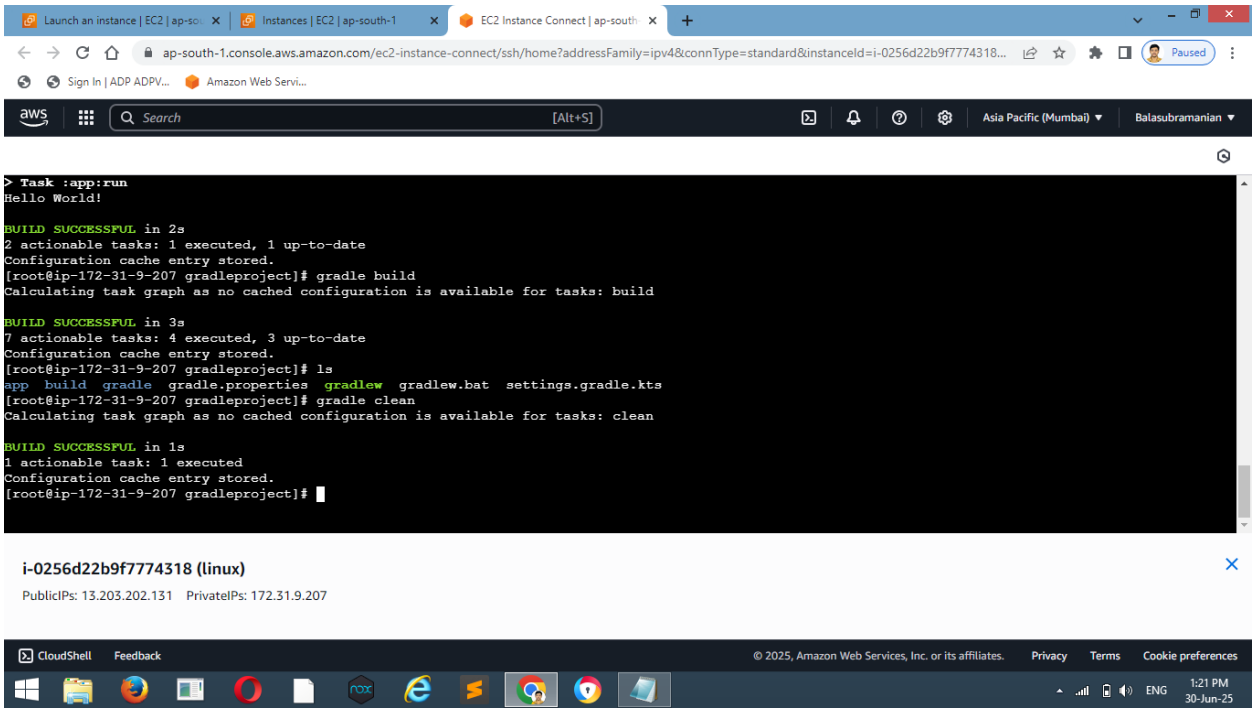
STEP 16: TO USE GRADLE BUILD COMMENT





STEP 17: TO USE GRADLE CLEAN COMMENT




Launch an instance | EC2 | ap-so
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-south
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0256d22b9f7774318...
Paused
Sign In | ADP ADPV...
Amazon Web Servi...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Balasubramanian
> Task :app:run
Hello World!
BUILD SUCCESSFUL in 2s
2 actionable tasks: 1 executed, 1 up-to-date
Configuration cache entry stored.
[root@ip-172-31-9-207 gradleproject]# gradle build
Calculating task graph as no cached configuration is available for tasks: build
BUILD SUCCESSFUL in 3s
7 actionable tasks: 4 executed, 3 up-to-date
Configuration cache entry stored.
[root@ip-172-31-9-207 gradleproject]# ls
app build gradle gradle.properties gradlew gradlew.bat settings.gradle.kts
[root@ip-172-31-9-207 gradleproject]# gradle clean
Calculating task graph as no cached configuration is available for tasks: clean
BUILD SUCCESSFUL in 1s
1 actionable task: 1 executed
Configuration cache entry stored.
[root@ip-172-31-9-207 gradleproject]#
i-0256d22b9f7774318 (linux)
PublicIPs: 13.203.202.131 PrivateIPs: 172.31.9.207
CloudShell
Feedback
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30-Jun-25