

LINUX MODULE

SUBMITTED BY –ADESH ARUN ADHAV

SUBMITTED TO – MR. VIKUL SIR

BATCH NO. SA2409031

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L4 - In EC2 Ubuntu Instance install JDK and setup JAVA_HOME path environment variable

STEP1- LAUNCH AN EC2 NSTANCE

STEP 2- CONNECT TO THE INSTANCE

STEP3- UPADTE THE PACKAGE

Sudo su

Sudo apt update -y

STEP 4- INSTALL THE JAVA

Sudo apt install openjdk-17-jdk

STEP 5- CHECKING JAVA VERSION

Java -version

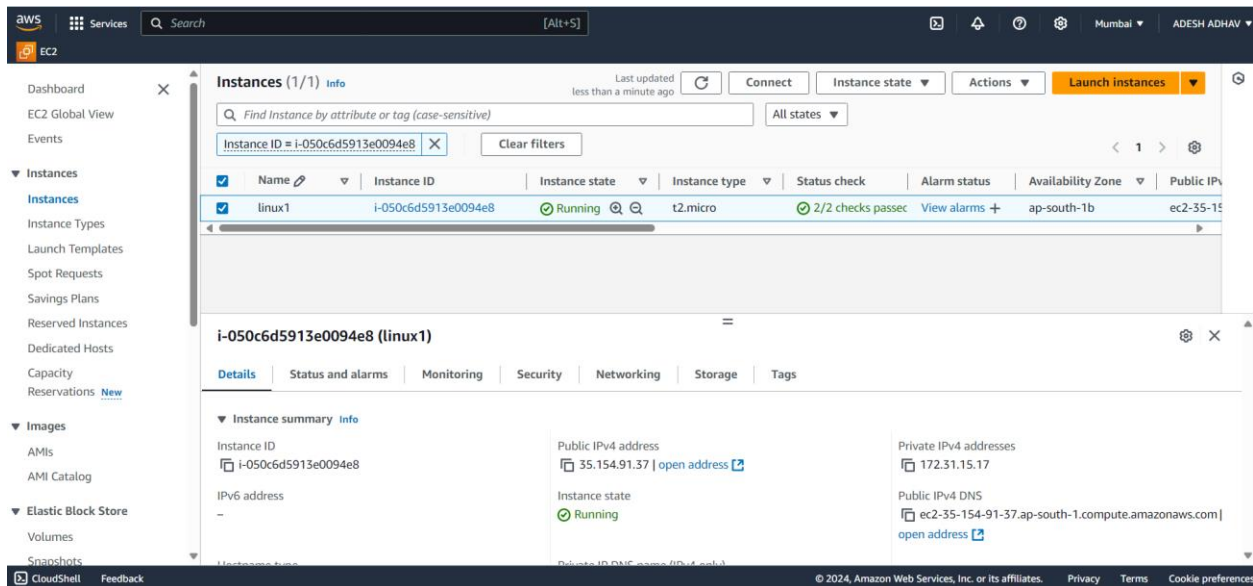
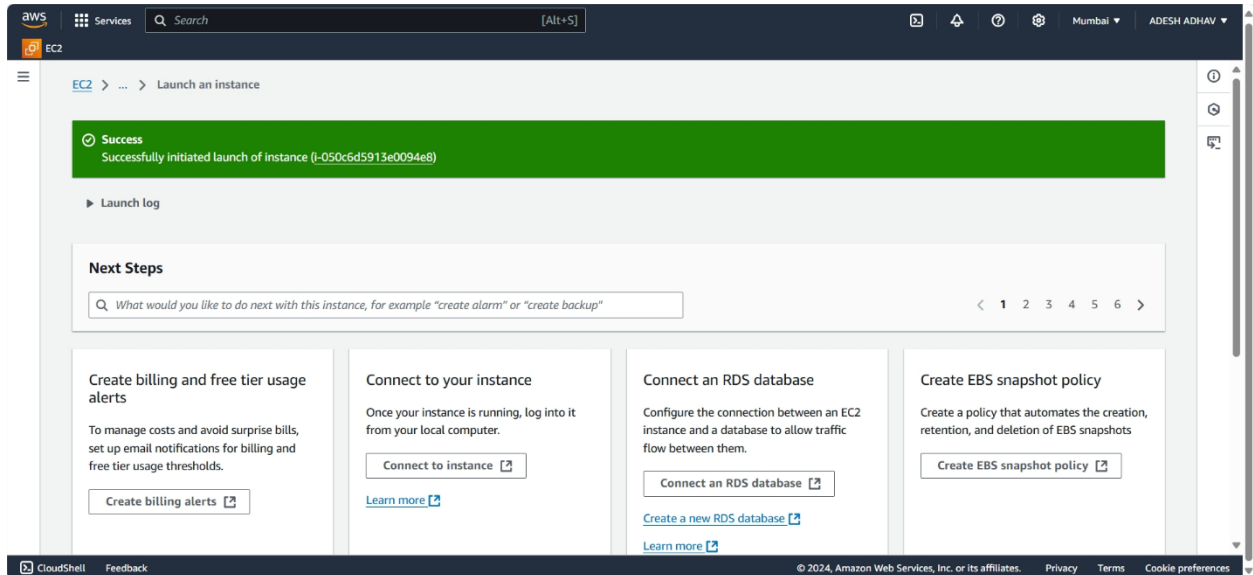
STEP 6 – JAVA PATH

- *sudo update-alternatives --config java*
 - *sudo vi /etc/environment*

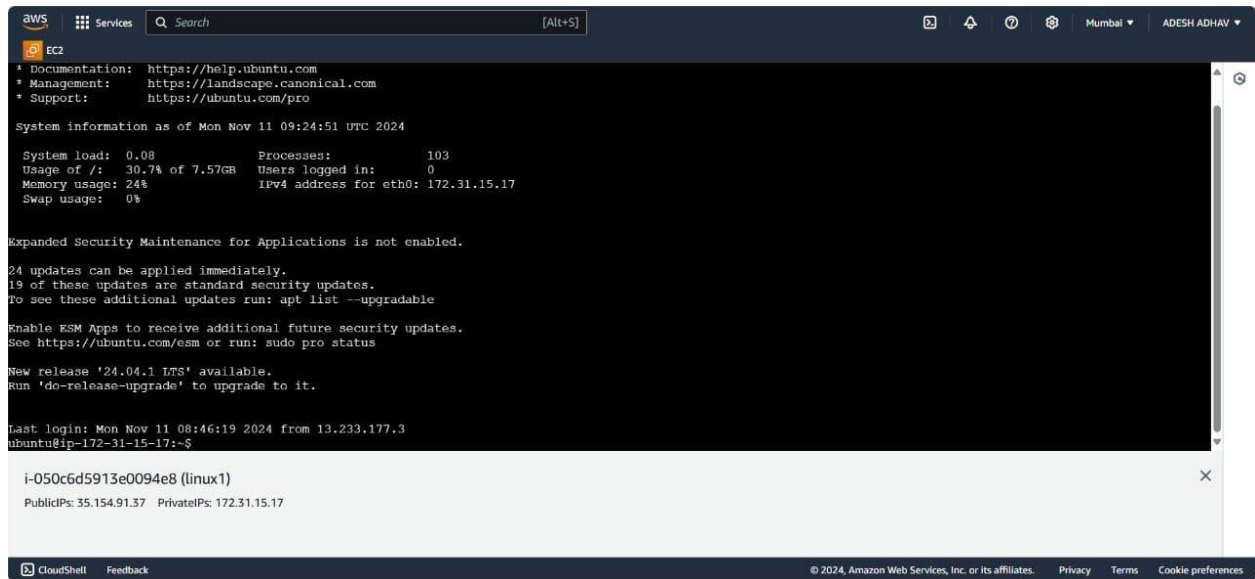
copy the java path from configuration

- *source /etc/environment*
 - *echo java home*

- LAUNCH THE INSTANCE



CONNECT TO THE INSTANCE



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal displays the following output:

```
Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
Support: https://ubuntu.com/pro

System information as of Mon Nov 11 09:24:51 UTC 2024

System load: 0.08      Processes:      103
Usage of /: 30.7% of 7.57GB   Users logged in: 0
Memory usage: 24%      IPv4 address for eth0: 172.31.15.17
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

24 updates can be applied immediately.
19 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

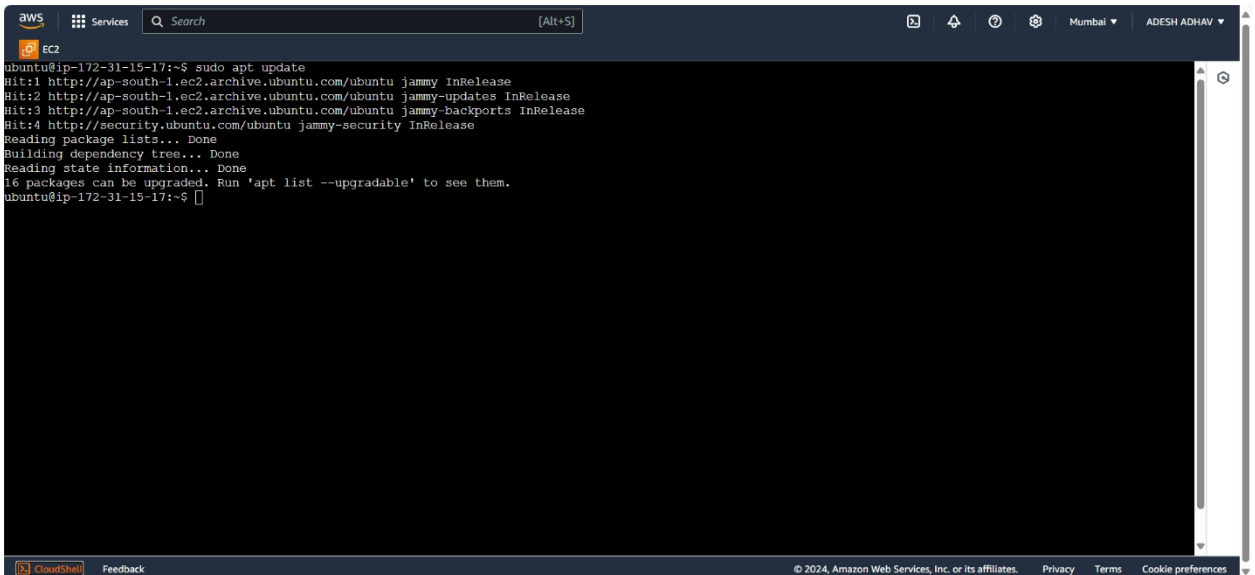
New release '24.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Nov 11 08:46:19 2024 from 13.233.177.3
ubuntu@ip-172-31-15-17:~$

i-050c6d5913e0094e8 (linux1)
PublicIPs: 35.154.91.37  PrivateIPs: 172.31.15.17
```

The interface includes an AWS logo, a search bar, and a top navigation bar with the user's name 'ADESH ADHAV' and location 'Mumbai'.

UPDATED THE PACKAGE



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal displays the following output after running 'sudo apt update':

```
ubuntu@ip-172-31-15-17:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
16 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-15-17:~$
```

The interface includes an AWS logo, a search bar, and a top navigation bar with the user's name 'ADESH ADHAV' and location 'Mumbai'.

JAVA PATH

The screenshot shows an AWS CloudShell terminal window. The top bar includes the AWS logo, 'Services', a search bar, and the user's name 'ADESH ADHAV'. The terminal title is 'EC2'. The prompt is '~'. The first line of the terminal shows the environment variable `PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin"`. The second line shows `JAVA_HOME="/usr/lib/jvm/java-17-openjdk-amd64"`. The terminal is mostly black with some faint, illegible text. At the bottom, a status bar shows the instance ID `i-050c6d5913e0094e8 (linux1)`, public IP `35.154.91.37`, and private IP `172.31.15.17`. The footer of the CloudShell window includes 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

```
aws Services Search [Alt+S] Mumbai ADESH ADHAV
EC2
~
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin"
JAVA_HOME="/usr/lib/jvm/java-17-openjdk-amd64"
...
"/etc/environment" 2L, 151B 2, 44 All
i-050c6d5913e0094e8 (linux1)
PublicPs: 35.154.91.37 PrivatePs: 172.31.15.17
CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

INSTALLED THE JAVA AND SETUP THE JAVA HOME VARIABLE

```
aws Services Search [Alt+S]
EC2
ubuntu@ip-172-31-15-17:~$ java --version
openjdk 17.0.13 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Ubuntu-2ubuntu122.04)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Ubuntu-2ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-15-17:~$ sudo update-alternatives --config java
There is only one alternative in link group java (providing /usr/bin/java): /usr/lib/jvm/java-17-openjdk-amd64/bin/java
Nothing to configure.
ubuntu@ip-172-31-15-17:~$ sudo vi /etc/environment
ubuntu@ip-172-31-15-17:~$ source /etc/environment
ubuntu@ip-172-31-15-17:~$ echo $JAVA_HOME
/usr/lib/jvm/java-17-openjdk-amd64
ubuntu@ip-172-31-15-17:~$
```

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