

MODULE 1

Submitted by – KINJARAPU RAJASEKHAR

Date Of Submission-21/08/2024

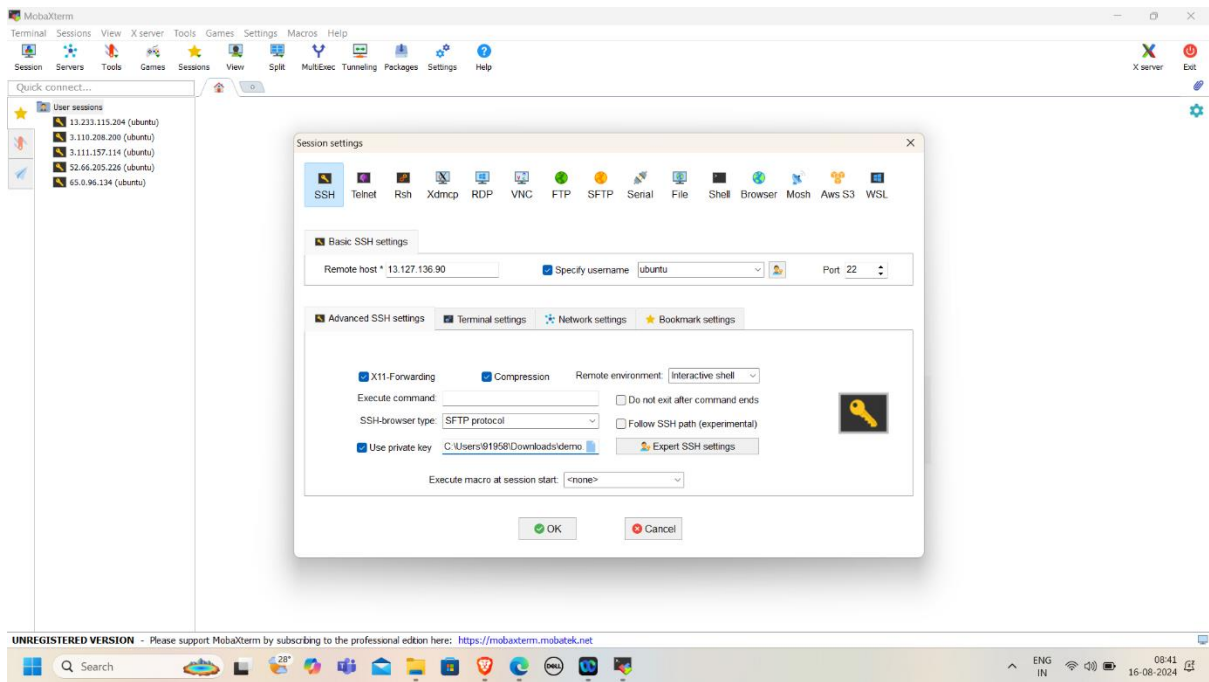
Date of Resubmission-

Batch no-SA246007

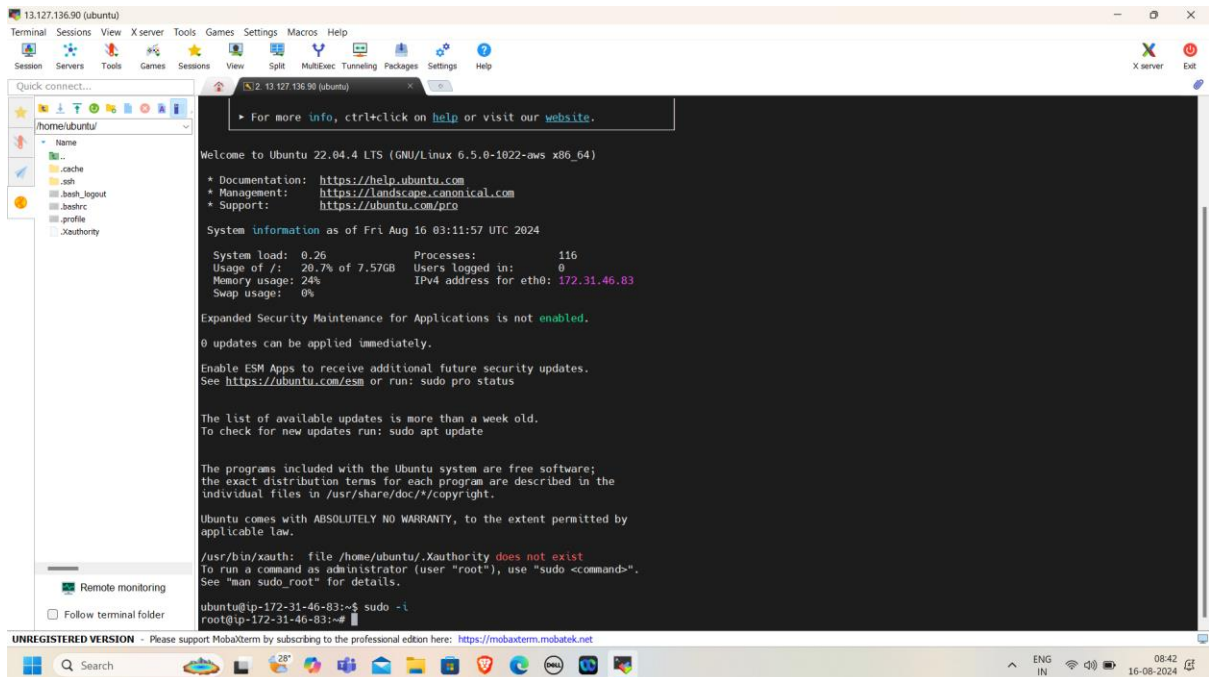
Submitted to- Vikul Mentor

4.L4 - Connect to the AWS EC2 Ubuntu Instance and Update default packages, install JDK, Maven, Git, and validate the versions

Step 1: login to mobaxterm using instance public address as in l1.



Step 2: connect to ubuntu instance and give command “sudo -i” to go to root level and give command “apt update” to update all the default packages



```
13.127.136.90 (ubuntu)
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultExec Tuning Packages Settings Help

Quick connect...
/home/ubuntu/
Name
cache
ssh
bash_login
bashrc
profile
Xauthority

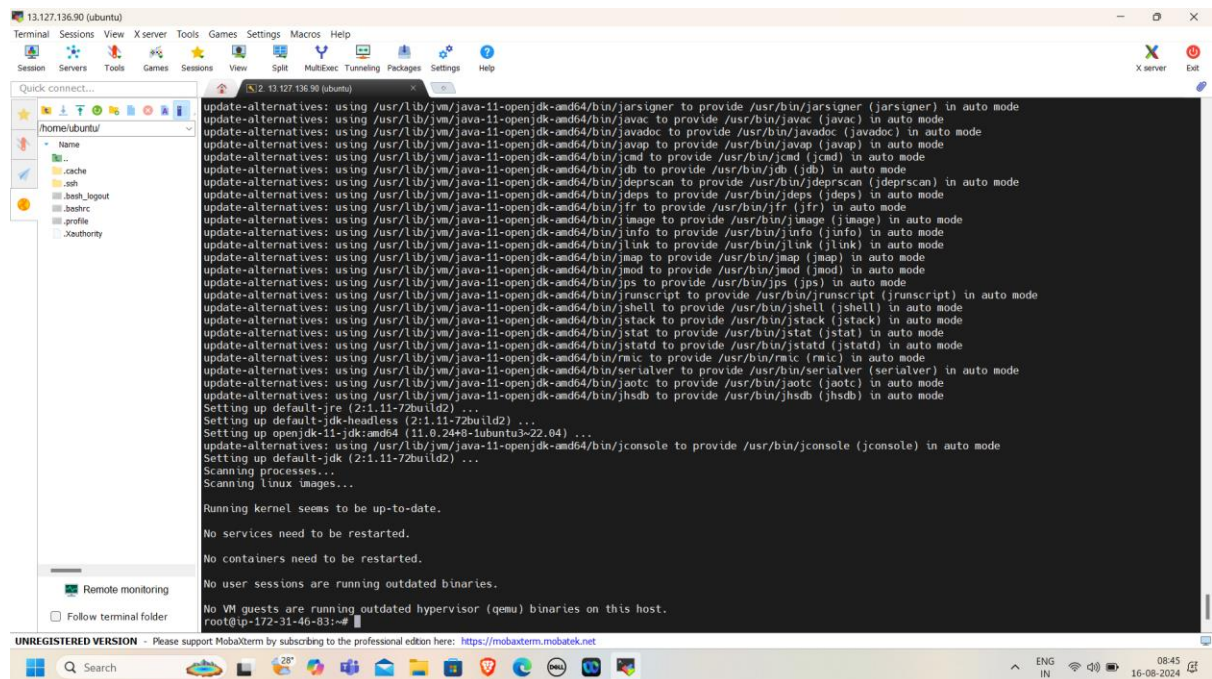
Get:16 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [604 B]
Get:17 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1111 kB]
Get:18 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [259 kB]
Get:19 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [25.9 kB]
Get:20 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [43.3 kB]
Get:21 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.8 kB]
Get:22 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [444 B]
Get:23 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:24 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:25 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:26 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.8 kB]
Get:28 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:29 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:30 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1729 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [207 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.2 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [2247 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [388 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [572 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [690 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [175 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [19.0 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [788 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
Fetched 33.2 MB in 6s (5265 KB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
34 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-46-83:~# java -version
Command 'java' not found, but can be installed with:
apt install openjdk-11-jre-headless # version 11.0.249-1ubuntu2-22.04, or
apt install default-jre # version 2:1.11-72build2
apt install openjdk-17-jre-headless # version 17.0.12+7-1ubuntu2-22.04
apt install openjdk-18-jre-headless # version 18.0.2+9-2ubuntu4
apt install openjdk-19-jre-headless # version 19.0.2+9-1ubuntu2-22.04
apt install openjdk-21-jre-headless # version 21.0.4+7-1ubuntu2-22.04
apt install openjdk-8-jre-headless # version 8u422-b05-1-22.04
root@ip-172-31-46-83:~# apt install openjdk
```

```
13.127.136.90 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitexer Tuning Packages Settings Help
Quick connect...
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.xauthority
root@ip-172-31-46-83:~# apt install openjdk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done

No apt package "openjdk", but there is a snap with that name.
Try "snap install openjdk".

E: Unable to locate package openjdk
root@ip-172-31-46-83:~# apt install default-jdk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service default-jdk-headless default-jre
default-jre-headless fontconfig-config fonts-dejavu-core fonts-dejavu-extra gsettings-desktop-schemas java-common libasound2 libasound2-data
libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-iui libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data
libavahi-common3 libcups2 libcups2 libdconf1 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1 libgl1-amdev-dri
libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvm15
liblpc155 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm6 libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0
libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcbi-dev libxcbsync1 libxdmcp-dev
libxfce6x3 libxfce4 libxft2 libxi6 libxml2 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxt6t6 libxv libxvfbopengl
libxvfbvnc openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless session-migration x11-common x11-utils x11proto-dev
xorg-sgml-doctools xtrans-dev
Suggested packages:
libasound2-plugins alsa-utils cups-common libice-doc liblcms2-utils pcsd lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo
openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei fonts-wqy-zenhei fonts-indic mesa-utils
The following NEW packages will be installed:
alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service default-jdk default-jdk-headless default-jre
default-jre-headless fontconfig-config fonts-dejavu-core fonts-dejavu-extra gsettings-desktop-schemas java-common libasound2 libasound2-data
libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-iui libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data
libavahi-common3 libcups2 libcups2 libdconf1 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1 libgl1-amdev-dri
libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvm15
liblpc155 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm6 libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0
libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcbi-dev libxcbsync1 libxdmcp-dev
libxfce6x3 libxfce4 libxft2 libxi6 libxml2 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxt6t6 libxv libxvfbopengl
libxvfbvnc openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless session-migration x11-common x11-utils x11proto-dev
xorg-sgml-doctools xtrans-dev
0 upgraded, 99 newly installed, 0 to remove and 34 not upgraded.
Need to get 165 MB of archives.
After this operation, 459 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```


Step5:here the jdk is successfully installed .



```
13.127.136.90 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitex Tunneling Packages Settings Help

Quick connect...
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.xauthority

Remote monitoring
Follow terminal folder

update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javap to provide /usr/bin/javap (javap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/rmic to provide /usr/bin/rmic (rmic) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jaotc to provide /usr/bin/jaotc (jaotc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up default-jre (2:11-72build2) ...
Setting up default-jdk-headless (2:11-72build2) ...
Setting up openjdk-11-jdk:amd64 (11.0.24+8-1ubuntu3-22.04) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
Setting up default-jdk (2:11-72build2) ...
Scanning processes...
Scanning Linux images...

Running kernel seems to be up-to-date.

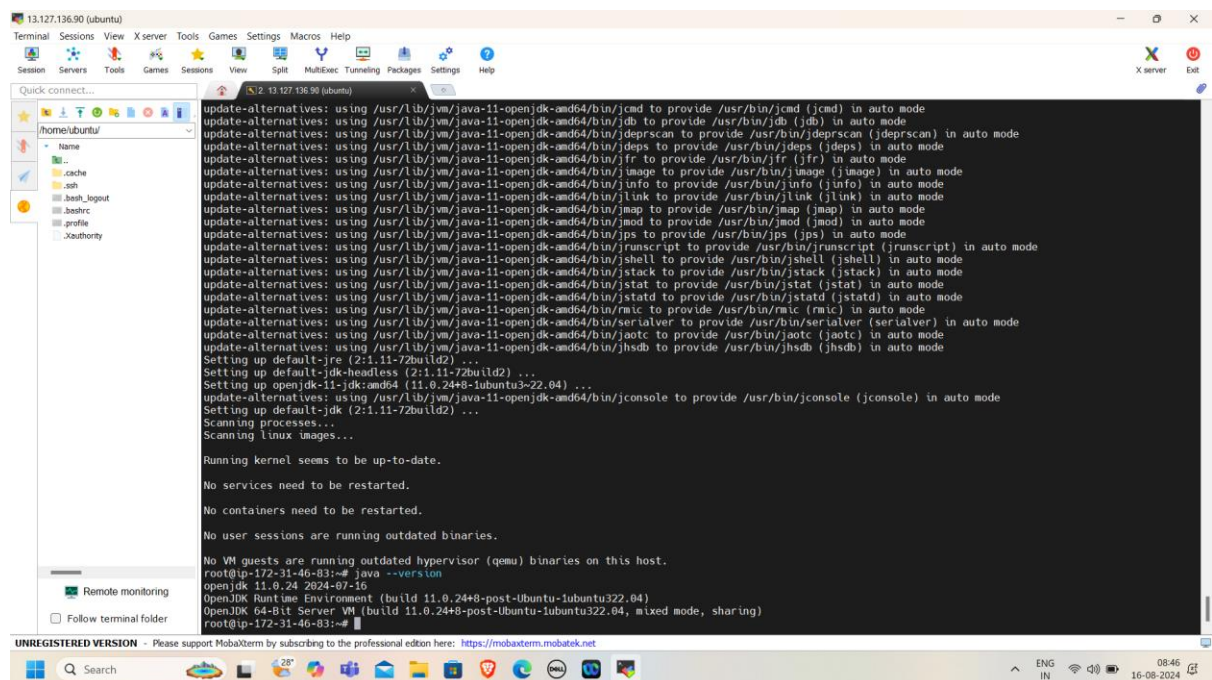
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-46-83:~#
```

Step6: to check the jdk version give command"java -version"



```
13.127.136.90 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitex Tunneling Packages Settings Help

Quick connect...
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.xauthority

Remote monitoring
Follow terminal folder

update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/rmic to provide /usr/bin/rmic (rmic) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jaotc to provide /usr/bin/jaotc (jaotc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up default-jre (2:11-72build2) ...
Setting up default-jdk-headless (2:11-72build2) ...
Setting up openjdk-11-jdk:amd64 (11.0.24+8-1ubuntu3-22.04) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
Setting up default-jdk (2:11-72build2) ...
Scanning processes...
Scanning Linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

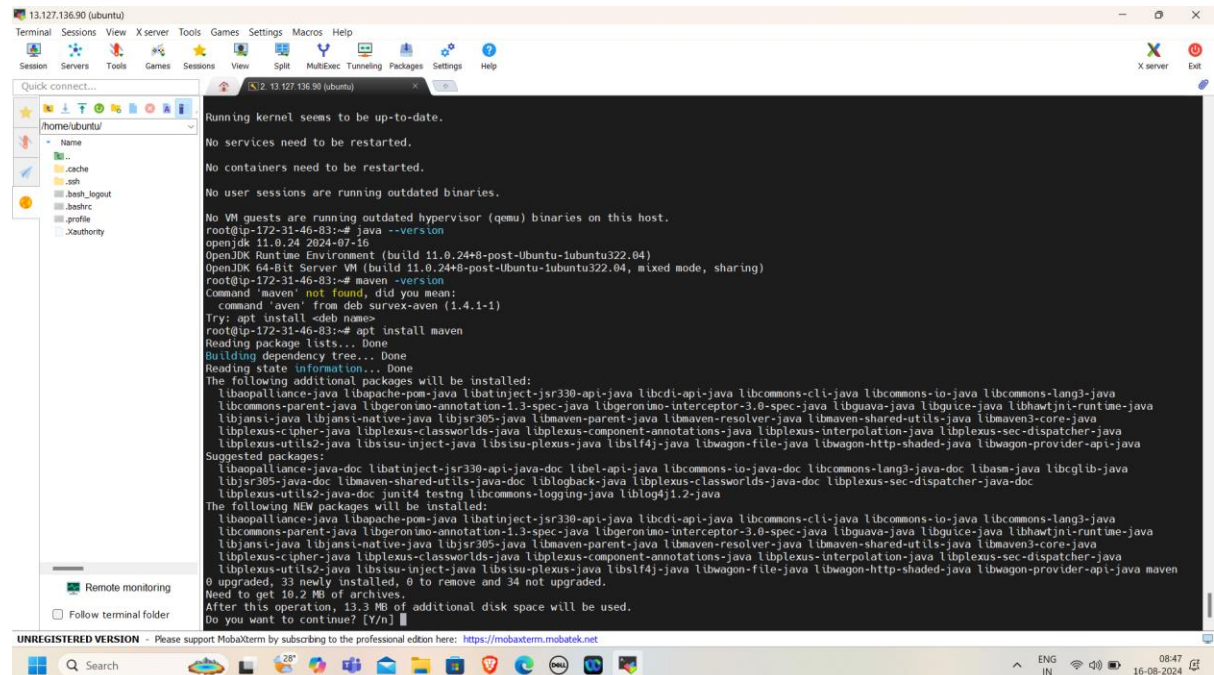
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-46-83:~# java -version
openjdk 11.0.24 2024-07-16
OpenJDK Runtime Environment (build 11.0.24+8-post-Ubuntu-1ubuntu322.04)
OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubuntu-1ubuntu322.04, mixed mode, sharing)
root@ip-172-31-46-83:~#
```

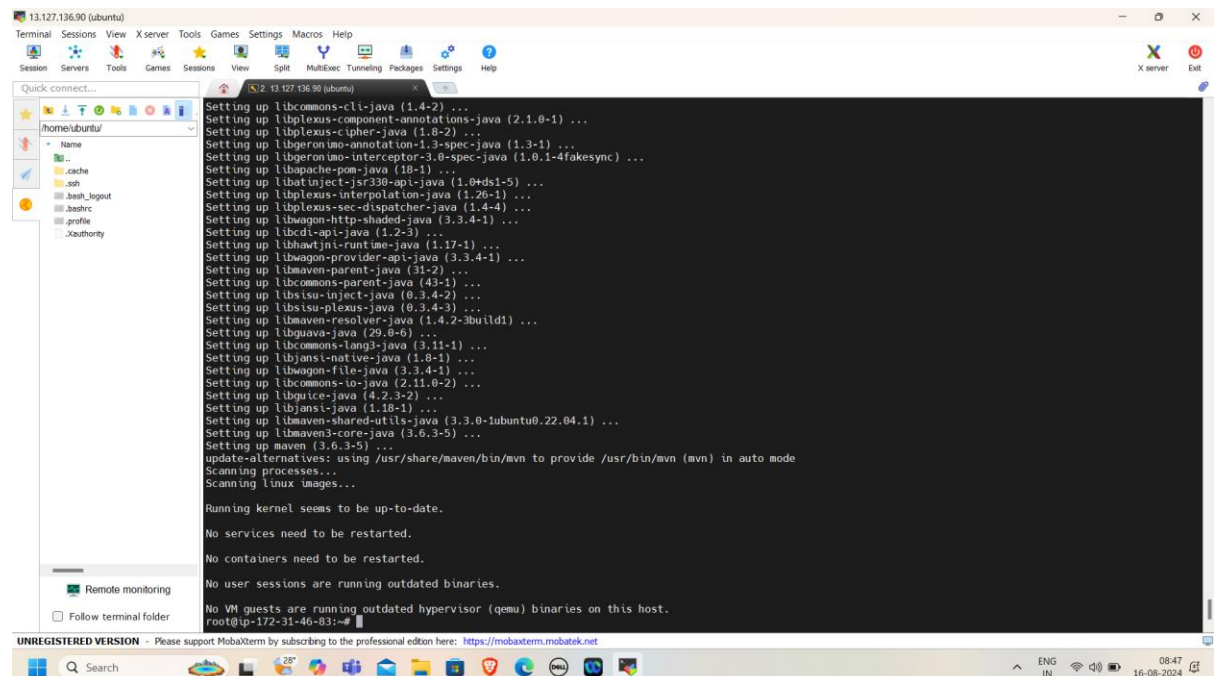
To install maven:

Step1: to install maven give command “apt install maven” and give y-(yes).



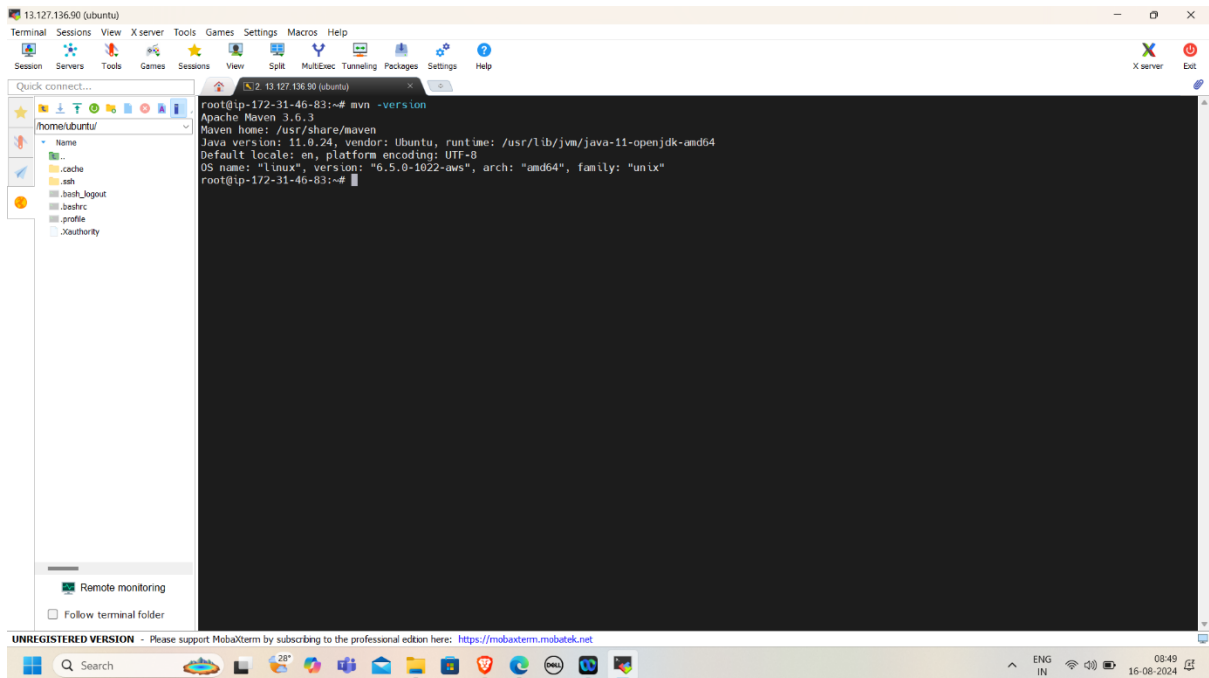
```
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-46-83:~# java --version
openjdk 11.0.24 2024-07-16
OpenJDK Runtime Environment (build 11.0.24+8-post-Ubuntu-1ubuntu222.04)
OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubuntu-1ubuntu222.04, mixed mode, sharing)
root@ip-172-31-46-83:~# maven -version
Command 'maven' not found, did you mean:
  command 'aven' from deb surver-aven (1.4.1-1)
Try: apt install <deb name>
root@ip-172-31-46-83:~# apt install maven
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java libcommons-io-java libcommons-lang3-java
  libcommons-parent-java libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libguice-java libhawtjni-runtime-java
  libjansi-native-java libjansi-native-java libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java
  libplexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java libplexus-sec-dispatcher-java
  libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java
Suggested packages:
  libaopalliance-java-doc libatinject-jsr330-api-java-doc libel-api-java libcommons-io-java-doc libcommons-lang3-java-doc libasm-java libcglib-java
  libjsr305-java-doc libmaven-shared-utils-java-doc liblogback-java libplexus-classworlds-java-doc libplexus-sec-dispatcher-java-doc
  libplexus-utils2-java-doc junit4 testing libcommons-logging-java liblog4j1.2-java
The following NEW packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java libcommons-io-java libcommons-lang3-java
  libcommons-parent-java libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libguice-java libhawtjni-runtime-java
  libjansi-native-java libjansi-native-java libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java
  libplexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java libplexus-sec-dispatcher-java
  libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java maven
0 upgraded, 33 newly installed, 0 to remove and 34 not upgraded.
Need to get 10.2 MB of archives.
After this operation, 13.3 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Step 2: here the maven is successfully installed



```
Setting up libcommons-cli-java (1.4-2) ...
Setting up libplexus-component-annotations-java (2.1.0-1) ...
Setting up libplexus-cipher-java (1.8-2) ...
Setting up libgeronimo-annotation-1.3-spec-java (1.3-1) ...
Setting up libgeronimo-interceptor-3.0-spec-java (1.0.1-4fakesync) ...
Setting up libapache-pom-java (18-1) ...
Setting up libatinject-jsr330-api-java (1.0+ds1-5) ...
Setting up libplexus-interpolation-java (1.26-1) ...
Setting up libplexus-sec-dispatcher-java (1.4-4) ...
Setting up libwagon-http-shaded-java (3.3.4-1) ...
Setting up libcdi-api-java (1.2-3) ...
Setting up libhawtjni-runtime-java (1.17-1) ...
Setting up libwagon-provider-api-java (3.3.4-1) ...
Setting up libcommons-parent-java (43-1) ...
Setting up libsisu-inject-java (0.3.4-2) ...
Setting up libsisu-plexus-java (0.3.4-3) ...
Setting up libmaven-resolver-java (1.4.2-3build1) ...
Setting up libguava-java (29.0-0) ...
Setting up libcommons-lang3-java (3.11-1) ...
Setting up libjansi-native-java (1.8-1) ...
Setting up libwagon-file-java (3.3.4-1) ...
Setting up libcommons-io-java (2.11.0-2) ...
Setting up libguice-java (4.2.3-2) ...
Setting up libjansi-java (1.18-1) ...
Setting up libmaven-shared-utils-java (3.3.0-1ubuntu0.22.04.1) ...
Setting up libmaven3-core-java (3.6.3-5) ...
Setting up maven (3.6.3-5) ...
update-alternatives: using /usr/share/maven/bin/mvn to provide /usr/bin/mvn (mvn) in auto mode
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-46-83:~#
```

Step3: to know the maven version give command “mvn -version”

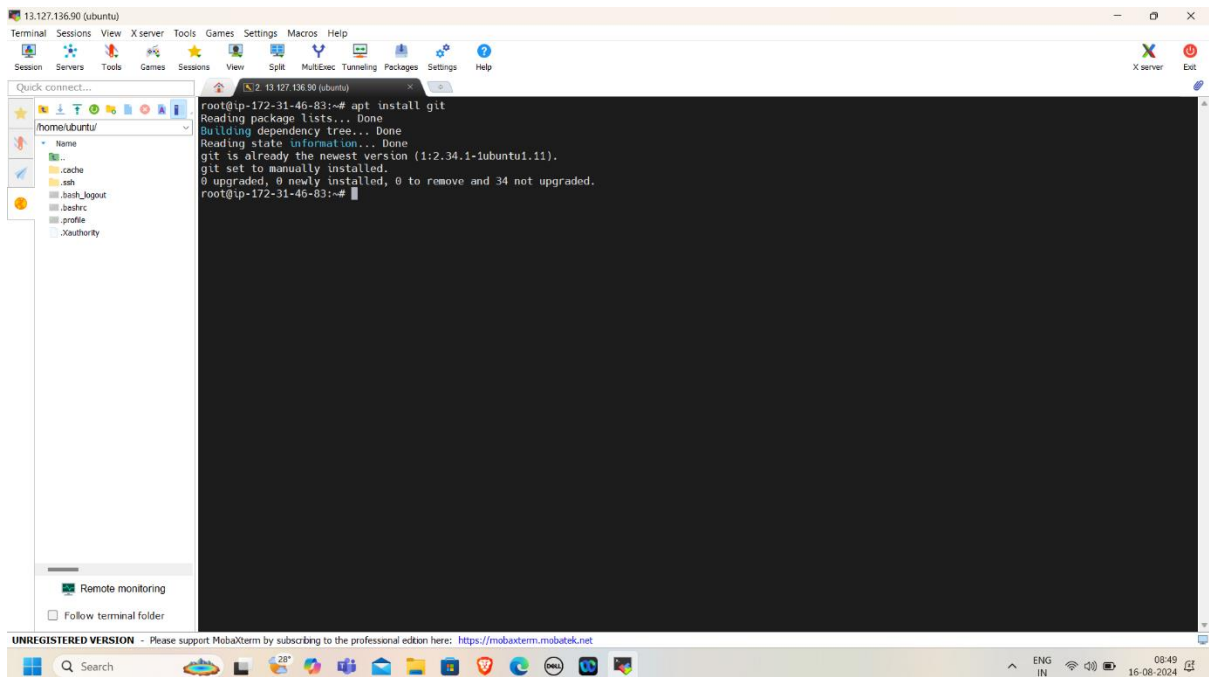


The screenshot shows a MobaXterm window with a terminal session on a remote Ubuntu server. The terminal displays the command `mvn -version` and its output, which includes the Apache Maven version (3.6.3), Maven home, Java version (11.0.24), and OS details (Linux, version 6.5.0-1022-aws, arch: amd64).

```
root@ip-172-31-46-83:~# mvn -version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.24, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.5.0-1022-aws", arch: "amd64", family: "unix"
root@ip-172-31-46-83:~#
```

To install git.

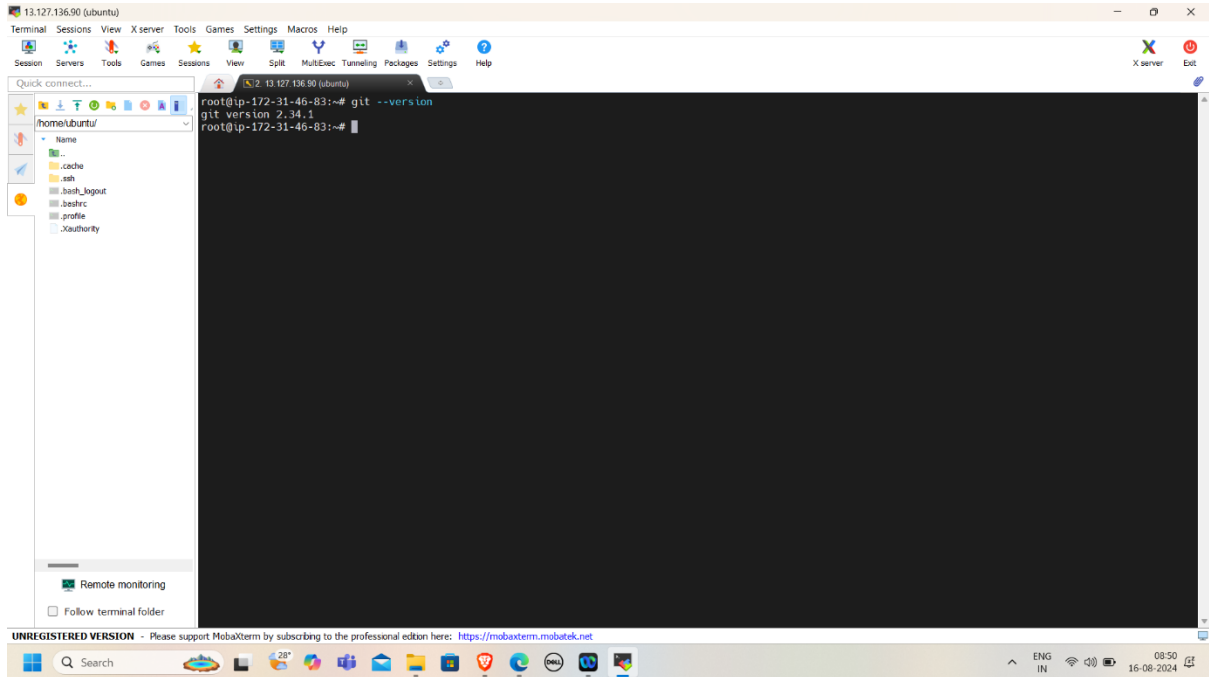
Step1: give command “apt install git”



The screenshot shows a MobaXterm window with a terminal session on a remote Ubuntu server. The terminal displays the command `apt install git` and its output, which indicates that git is already installed and is the newest version (1:2.34.1-1ubuntu1.11).

```
root@ip-172-31-46-83:~# apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.11).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 34 not upgraded.
root@ip-172-31-46-83:~#
```

Step2 : to check version give command “git --version”



The screenshot shows the MobaXterm application window. The title bar indicates the connection is to 13.127.136.90 (ubuntu). The menu bar includes Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, and Help. The toolbar contains icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, and Help. On the left, a 'Quick connect...' sidebar shows a list of sessions under 'home/ubuntu', including Name, .cache, .ssh, .bash_logout, .bashrc, .profile, and .xauthority. The main terminal area displays the command 'git --version' and its output 'git version 2.34.1'. The terminal prompt is 'root@ip-172-31-46-83:~#'. At the bottom, a status bar shows 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'. The system tray on the right shows the language set to 'ENG IN', signal strength, battery level, and the date '16-08-2024' and time '08:50'.

```
root@ip-172-31-46-83:~# git --version
git version 2.34.1
root@ip-172-31-46-83:~#
```