## MASTER AND SLAVE CONFIGURATION

 Create an EC2 instance for Jenkins Slavenode server and connect instance with using ssh

```
MINGW64/c/Userv/gandh/Downloads

gandh@LAPTOP-8K636U2E MINGW64 ~/Downloads (main)

$ ssh -i "grand.pem" ec2-user@13.126.203.89

The authenticity of host '13.126.203.89 (13.126.203.89)' can't be established.
ED25519 key fingerprint is SHA256:FavuZI2esownZaSToD7Hk88Z1m3CFcF9NrkPEp0BDHA.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '13.126.203.89' (ED25519) to the list of known hosts.

#####______ Amazon Linux 2023

#####______ Amazon Linux 2023

##### Amazon Linux 2023
```

- Edit the sudoers file to edit the file command is
- sudo vi /etc/sudoers
- add slave-5 (ALL) NOPASSWD:ALL

```
Adding HOME to env_keep may enable a user to run unrestricted

commands via sudo.

# Defaults env_keep += "HOME"

Defaults secure_path = /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/var/lib/snapd/snap/bin

## Next comes the main part: which users can run what software on

## which machines (the sudoers file can be shared between multiple

## systems).

## Systems).

## User MACHINE=COMMANDS

## The COMMANDS section may have other options added to it.

## ## Allow root to run any commands anywhere

root ALI=(ALI) NOPASSWD: ALI

## Allow members of the 'sys' group to run networking, software,

## service management apps and more.

## Sysy ALI = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands

Xwheel ALI=(ALI) ALI

## Allows members of the users group to mount and unmount the

## Same thing without a password

## Sume thing without a password

## Sume thing without a password

## Sume thing without a password

## Allows members of the users group to shutdown this system

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## Allows members of the users
```

- Creating a new user with sudo useradd tomcat
- Adding password to user with sudo passwd tomcat
- login as user -> sudo su tomcat

```
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[ec2-user@ip-10-0-0-12 ~]$ sudo useradd tomcat
[ec2-user@ip-10-0-0-12 ~]$ sudo passwd tomcat
Changing password for user tomcat.

New password:

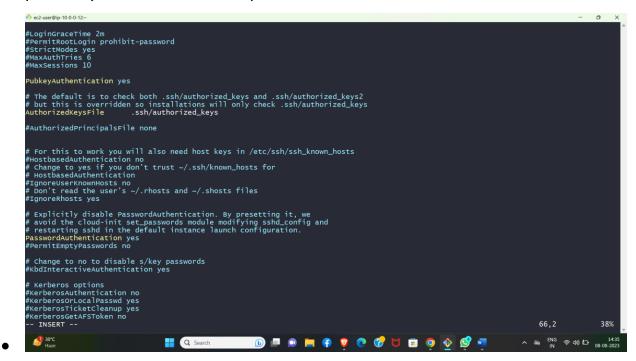
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:

passwd: all authentication tokens updated successfully.
[ec2-user@ip-10-0-0-12 ~]$ sudo vi /etc/sudoers
[ec2-user@ip-10-0-0-12 ~]$ sudo vi /etc/ssh/sshd_config
[ec2-user@ip-10-0-0-12 ~]$ ssh-keygen -t rsa -N "" -f /home/tomcat/.ssh/id_rsa

Generating public/private rsa key pair.

saving key "/home/tomcat/.ssh/id_rsa" failed: Permission denied
[ec2-user@ip-10-0-0-12 ~]$ sudo su tomcat
[tomcat@ip-10-0-0-12 ~]$ sudo su tomcat
[tomcat@ip-10-0-0-12 ~]$ sudo su tomcat
```

 And give the permissions at sudo vi /etc/ssh/sshd\_config you can give publickey authentication and passwd authentication



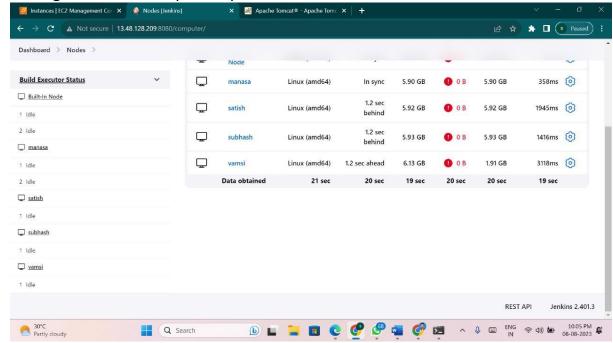
- Create ssh key for Slave-5 user with ssh key using -> ssh-keygen -t rsa -N
   "" -f /home/tomcat/.ssh/id\_rsa
- Going inside the directory -> cd .ssh
- id\_rsa and id\_rsa.pub created
- copy the public key to the authorised\_keys
- give permission to the authorized keys using the command chmod 700 authorized\_keys

```
Sur user tomcat does not exist or the user entry does not contain all the required fields [ec2-user@ip-10-0-0-12 -]$ sudo useradd tomcat [ec2-user@ip-10-0-0-12 -]$ sudo passwd tomcat changing password for user tomcat.

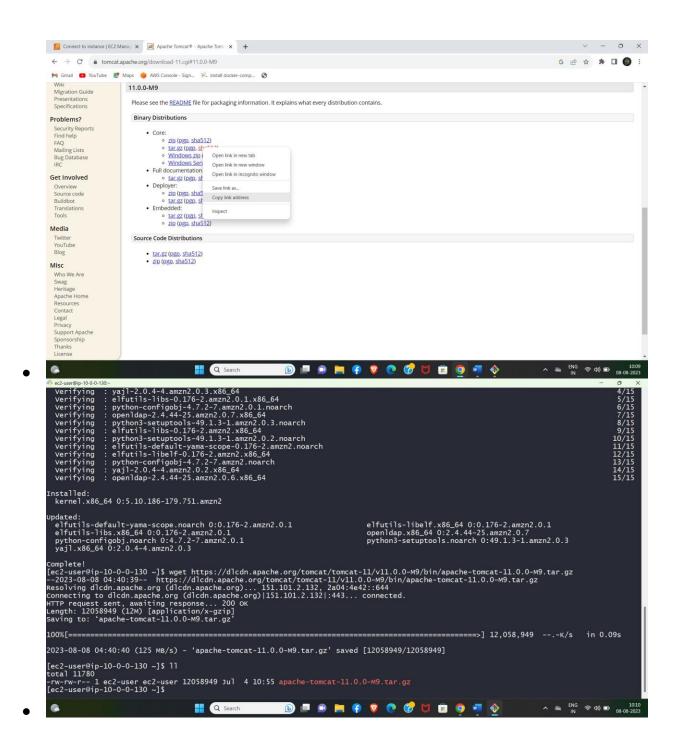
New password:

New password
```

Then give user id and public ip to master then connect to master



 Then you can install tomcat on slave and also install java and git and maven



• Then unzip the tar file using tar -xvzf apache-tomcat-version.tar.gz

```
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```

Then go into the unzipped file

```
Then go into the unzipped file

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apache-Tomcat-11.0.0-M9/webapps/host-manager/VEB-INF/web.xml
apache-Tomcat-11.0.0-M9/webapps/host-manager/css/manager.css
apache-Tomcat-11.0.0-M9/webapps/host-manager/images/asf-logo.svg
apache-tomcat-11.0.0-M9/webapps/host-manager/images/asf-logo.svg
apache-Tomcat-11.0.0-M9/webapps/host-manager/images/asf-logo.svg
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/domcat.svg
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/domcat.svg
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apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/connectorciphers.jsp
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/connectorciphers.jsp
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apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/connectorciphers.jsp
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/sessionDetail.jsp
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/connectorciphers.jsp
apache-Tomcat-11.0.0-M9/webapps/manager/WEB-INF/sps/sessionDetail.jsp
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apache-Tomcat-11.0.0-M9/webapps/manager/SEB-INF/sps/sps-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Informat-Infor
```

Go in to webapp/manager/META-INF/open context,xml file using vi command and hide value line

```
**South Property Context.xml" 25L, 13578

**Context.xml" 25L, 13578
```

 Go in to webapp/host-manager/META-INF/open context,xml file using vi command and hide value line

```
## Context xml" 25L, 1357B

## Q Sasth

#
```

Then go to conf and open server.xml file and change port

```
so you may not define subcomponents such as "Valves" at this level Documentation at /docs/config/service.html
         <Service name="Catalina">
                  <!--The connectors can use a shared executor, you can define one or more named thread pools-->
                   <=:--
«Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
maxThreads="150" minSpareThreads="4"/>
                <!-- A "Connector" represents an endpoint by which requests are received
and responses are returned. Documentation at :
Java HTTP Connector: /docs/config/http.html
Java AJP Connector: /docs/config/ajp.html
APR (HTTP/AJP) Connector: /docs/apr.html
Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
                  <->
<Connector port="8081" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443"
    maxParameterCount="1000"</pre>
                 <!-- A "Connector" using the shared thread pool-->
                  <!--

<Connector executor="tomcatThreadPool"

port="8080" protocol="HTTP/1.1"

connectionTimeout="20000"

redirectPort="8443"

maxParameterCount="1000"

(~)
   -->
<!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
This connector uses the NIO implementation. The default
SSLImplementation will depend on the presence of the APR/native
library and the useopenSSL attribute of the AprlifecycleListener.
Either JSSE or OpenSSL style configuration may be used regardless of
'server.xml" 180L, 78568
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Haze
Go to conf/ open tomcat-user.xml
```

```
By default, no user is included in the "manager-gui" role required to operate the "/manager/html" web application. If you wish to use this app, you must define such a user - the username and password are arbitrary.
  Built-in Tomcat manager roles:
- manager-gui - allows access to the HTML GUI and the status pages
- manager-script - allows access to the HTTP API and the status pages
- manager-jmx - allows access to the JMX proxy and the status pages
- manager-status - allows access to the status pages only
   The users below are wrapped in a comment and are therefore ignored. If you wish to configure one or more of these users for use with the manager web application, do not forget to remove the <!...> that surrounds them. You will also need to set the passwords to something appropriate.
   <user username="admin" password="<must-be-changed>" roles="manager-gui"/>
<user username="robot" password="<must-be-changed>" roles="manager-script"/>
  The sample user and role entries below are intended for use with the examples web application. They are wrapped in a comment and thus are ignored when reading this file. If you wish to configure these users for use with the examples web application, do not forget to remove the <1. ... > that surrounds them. You will also need to set the passwords to something appropriate.
  ---
«role rolename="manager-gui"/>
«user username="tomcat" password="s3cret" roles="manager-gui,manager-script,manager-jmx,manager-status"/>
</tomcat-users>
    INSERT
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                                                                                                                                                                                                                                                           へ M ENG 令 中 の8-08-2023
                                                                         Q Search (b) [ Q Search
```

Then go to bin/ start the tomcat engine using ./startup.sh

```
Apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/sessionStist.jsp
apache-tomcat-11.0.0-M9/webapps/manager/WEB-INF/jsp/sessionStist.jsp
apache-tomcat-11.0.0-M9/webapps/manager/inages/saf-logo.svg
apache-tomcat-11.0.0-M9/webapps/manager/inages/saf-logo.svg
apache-tomcat-11.0.0-M9/webapps/manager/inages/saf-logo.svg
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apache-tomcat-11.0.0-M9/webapps/manager/inages/saf-logo.svg
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/webapps/manager/status.xsd
apache-tomcat-11.0.0-M9/bin/catalina.sh
apache-tomcat-11.0.0-M9/bin/catalina.sh
apache-tomcat-11.0.0-M9/bin/status-sh
apache-tomcat-11.0.0-M9/bin/statup-sh
apache-tomcat-11.0.0-M9/bin/sta
     cataina-tasks.xmi configuest.bat makebase.sh shutdown.ciphers.bat configuest.sh makebase.sh shutdown.

[ec2-user@ip-10-0-0-130 bin]$ ./startup.sh
Neither the JAVA_HOME nor the JRE_HOME environment variable is defined
At least one of these environment variable is needed to run this program

[ec2-user@ip-10-0-0-130 bin]$
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         6
               ec2-user@p-10-0-130~/apache-lomcat-11.0.4M/bin

Verifying : libxslt-1.1.28-6.amzn2.x86_64

Verifying : python-javapackages-3.4.1-11.amzn2.noarch

Verifying : libxtst-1.2.3-1.amzn2.0.2.x86_64

Verifying : alsa-lib-1.1.4.1-2.amzn2.x86_64

Verifying : fontpackages-filesystem=1.44-8.amzn2.noarch

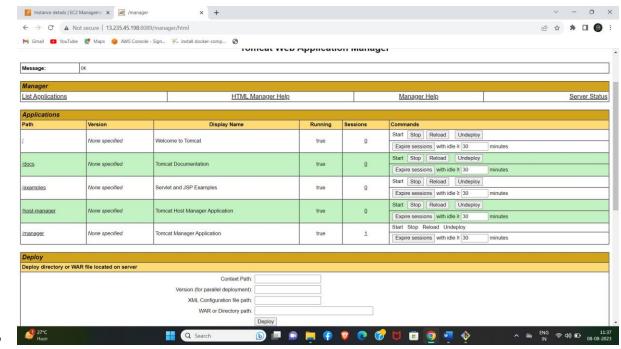
Verifying : libiCE-1.0.9-9.amzn2.0.2.x86_64

Verifying : libiCE-1.0.9-9.amzn2.0.3.x86_64

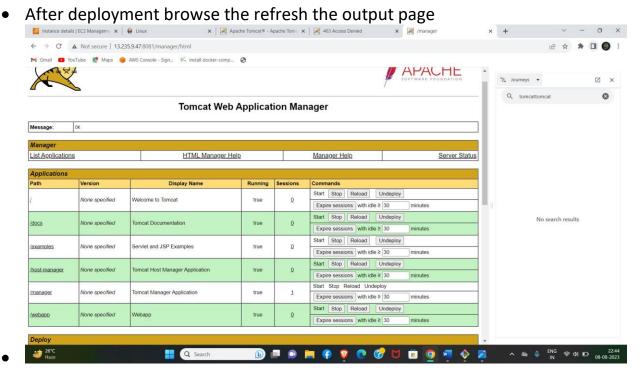
Verifying : libxl1-common-1.6.7-3.amzn2.0.3.noarch

Verifying : javapackages-tools-3.4.1-11.amzn2.noarch
        Installed:
java-17-amazon-corretto.x86_64 1:17.0.8+7-1.amzn2.1
        | Dependency Installed:
| alsa-lib.x86_64 0:1.1.4.1-2.amzn2
| dejavu-sans-fonts.noarch 0:2.33-6.amzn2
| dejavu-serif-fonts.noarch 0:2.33-6.amzn2
| fontpackages-filesystem.noarch 0:1.44-8.amzn2
| fontpackages-filesystem.noarch 0:1.44-8.amzn2
| fontpackages-filesystem.noarch 0:1.44-8.amzn2
| fontpackages-filesystem.noarch 0:1.44-8.amzn2
| fava-17-amazon-corretto-headless.x86_64 1:17.0.8+7-1.amzn2.1
| librce.x86_64 0:1.0.9-9.amzn2.0.2
| libx11.x86_64 0:1.0.9-9.amzn2.0.2
| libxs.x86_64 0:1.7.9-1.amzn2.0.2
| libxraya66_64 0:1.1.5-3.amzn2.0.2
| libxt.x86_64 0:1.12-1.amzn2.0.2
| libxt.x86_64 0:1.12-1.amzn2.0.2
| log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2
| python-1xm1.x86_64 0:3.2.1-4.amzn2.0.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dejavu-fonts-common.noarch 0:2.33-6.amzn2
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2
fontconfig.x86_64 0:2.13.0-4.3.amzn2
giflib.x86_64 0:4.1.6-9.amzn2.0.2
javapackages-tools.noarch 0:3.4.1-11.amzn2
libsM.x86_64 0:1.2.2-2.amzn2.0.2
libxIl-common.noarch 0:1.6.7-3.amzn2.0.3
libxNext.x86_64 0:1.3.3-3.amzn2.0.2
libxInama.x86_64 0:1.1.3.2-1.amzn2.0.2
libxinender.x86_64 0:0.1.9.10-1.amzn2.0.2
libxrender.x86_64 0:0.1.3.3-2.1.amzn2.0.2
libxts.x86_64 0:1.2.3-1.amzn2.0.2
libxts.x86_64 0:1.2.3-1.amzn2.0.2
libxslt.x86_64 0:1.3.3-2.3-1.amzn2.0.2
libxslt.x86_64 0:1.3.3-3.amzn2.0.2
      Complete!
[ec2-user@ip-10-0-0-130 bin]$ ./startup.sh
Using cATALINA_BASE: /home/ec2-user/apache-tomcat-11.0.0-м9
Using cATALINA_HOME: /home/ec2-user/apache-tomcat-11.0.0-м9
Using cATALINA_TMPDIR: /home/ec2-user/apache-tomcat-11.0.0-м9
Using cATALINA_TMPDIR: /home/ec2-user/apache-tomcat-11.0.0-м9/temp
Using JRE_HOME: /usr
Using JRE_HOME: /usr
Using CLASSPATH: /home/ec2-user/apache-tomcat-11.0.0-м9/bin/bootstrap.jar:/home/ec2-user/apache-tomcat-11.0.0-м9/bin/tomcat-juli.
        USING CLASSFAIN.
jar
Using CATALINA_OPTS:
Tomcat started.
[ec2-user@ip-10-0-0-130 bin]$|
```

Then browse the public ip



- And copy the path like <a href="http://13.235.9.47:8081/">http://13.235.9.47:8081/</a>
- And copy github url <u>amar-m-cloud/maven-project (github.com)</u>
- Then send it for master



Then show output webapp and click on webap

