Master - Slave configuration

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Same version of java should exist.

Master and slave should have password less SSH

Step 1: Create slave machine , connect to slave

1) Update the apt repository

sudo apt-get update

2) sudo apt install openjdk-8-jdk -y

3) Check the Java Version

java -version

We need to establish password less connection between Dev server and Slave machine

Connect to slave

7) Check you user

$ whoami ( ubuntu )

8) set password for ubuntu user

syntax: sudo passwd <user\_name>

Ex: sudo passwd ubuntu

enter password

$ cd /etc/ssh

$ ls ( we get list of files ) Look for sshd\_config

To edit sshd\_config

$ sudo vim sshd\_config

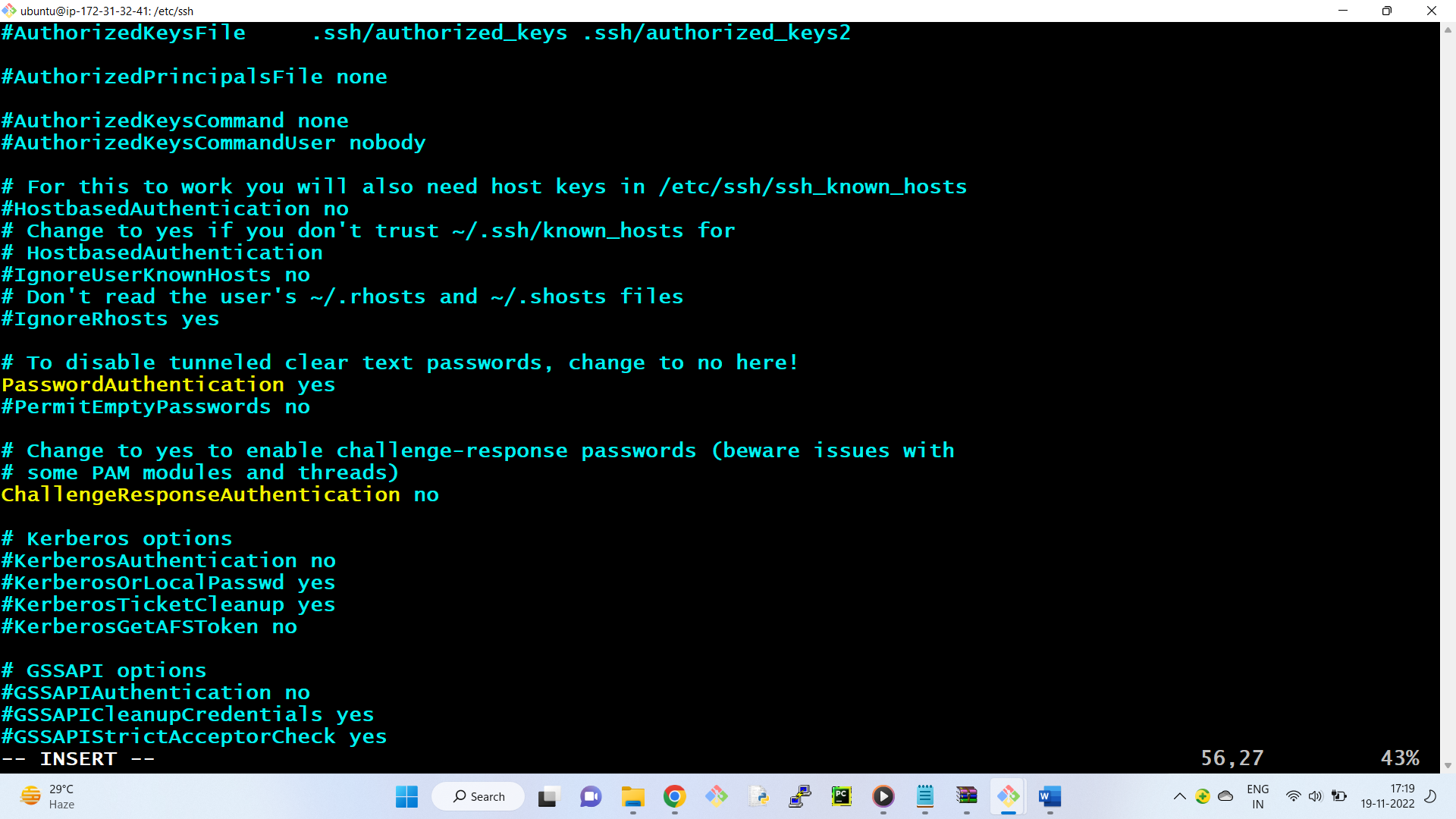
Go to insert mode

change password authentication to yes

13) Save and quit :wq

14) Restart the service

$ sudo service ssh restart



Lets test the connection

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15) Connect to the development server ( Master )

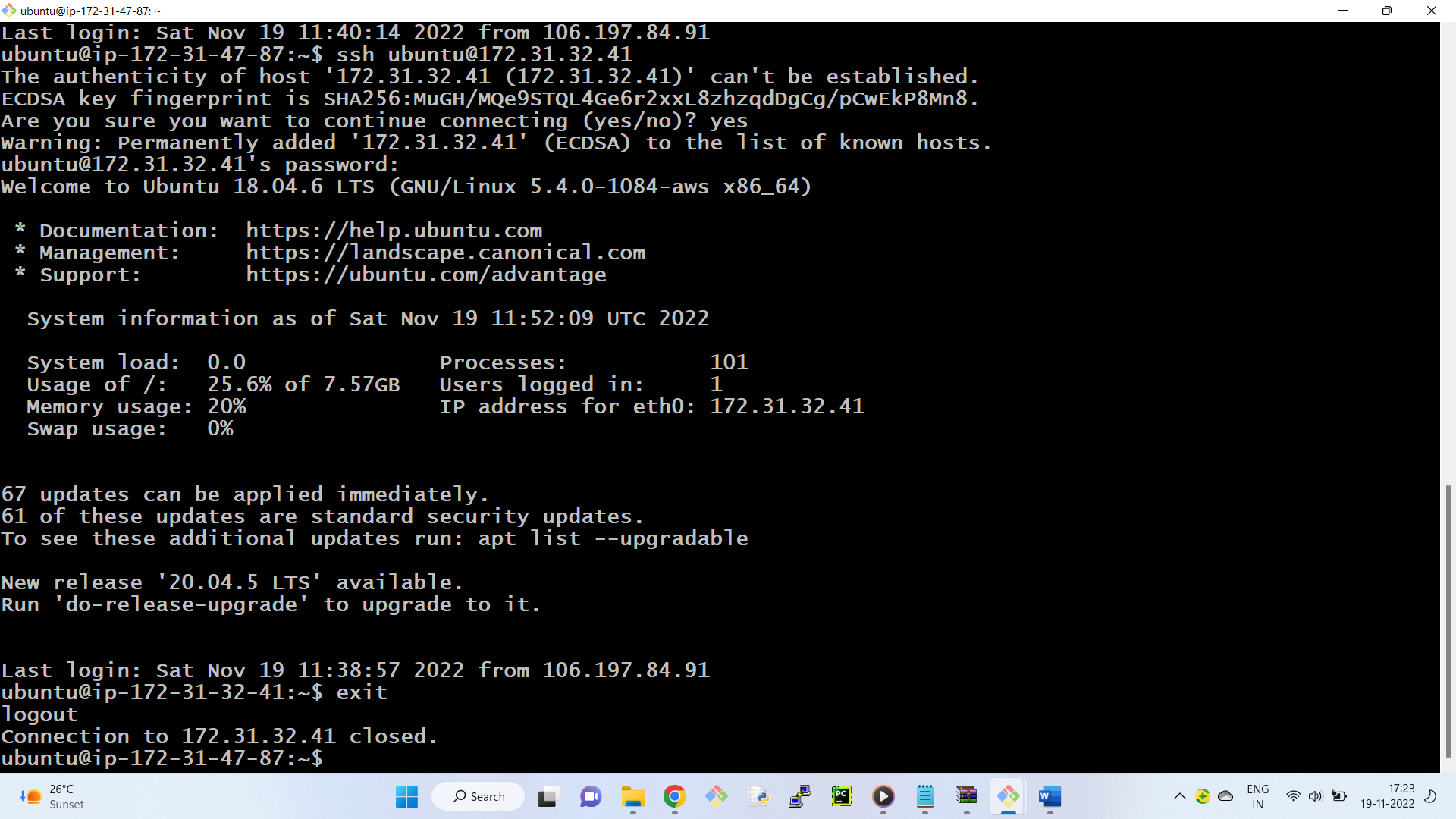
16) connect to slave server through dev server

ssh ubuntu@private\_ip\_slave\_machine

$ ssh ubuntu@172.31.1.107

exit ( to come back to master )

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17) To connect to slave without password

$ ssh-keygen ( In master)

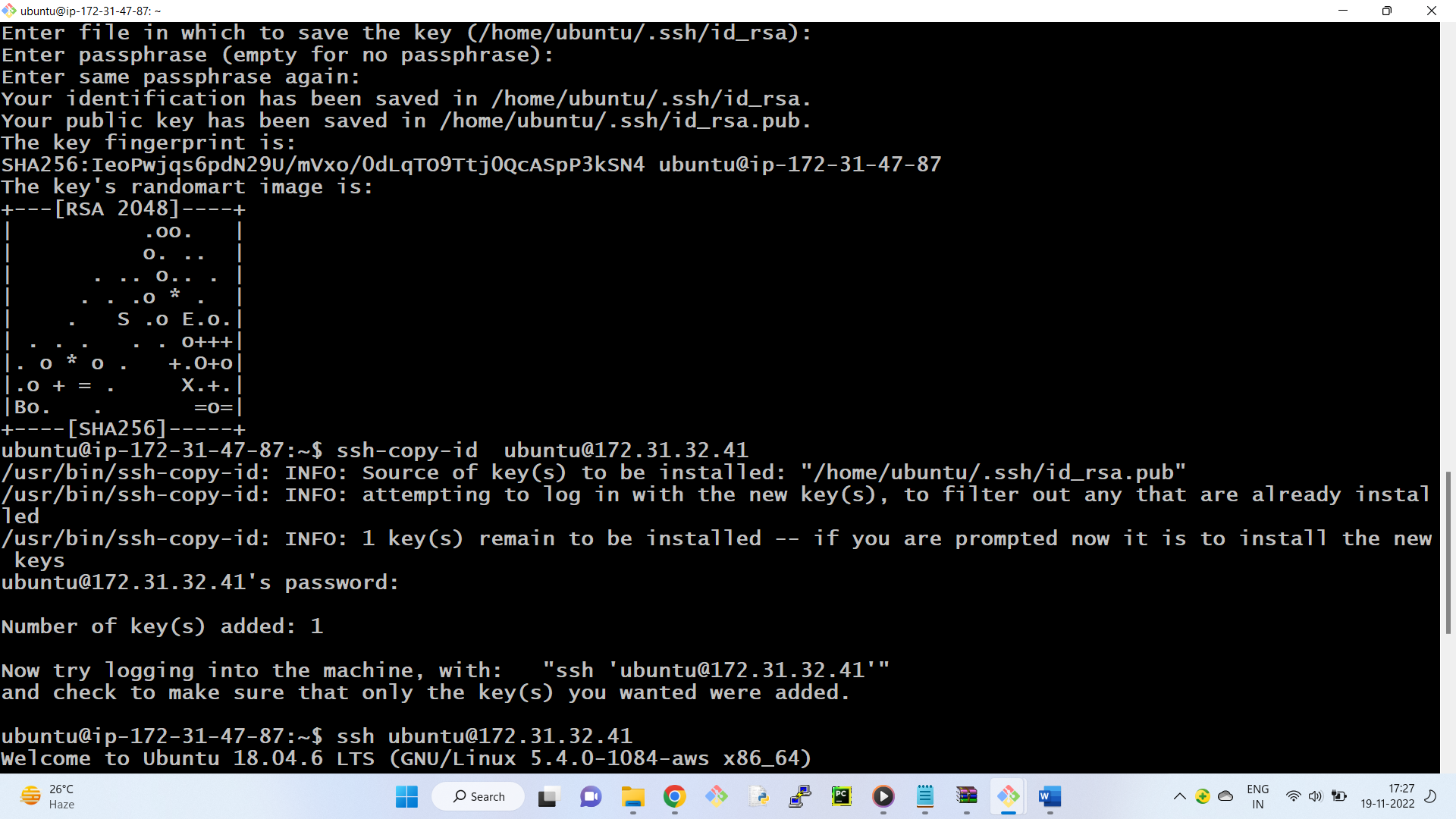
18) copy the keys to slave server

ssh-copy-id ubuntu@private\_ip\_slave\_server

ssh-copy-id ubuntu@172.31.1.107

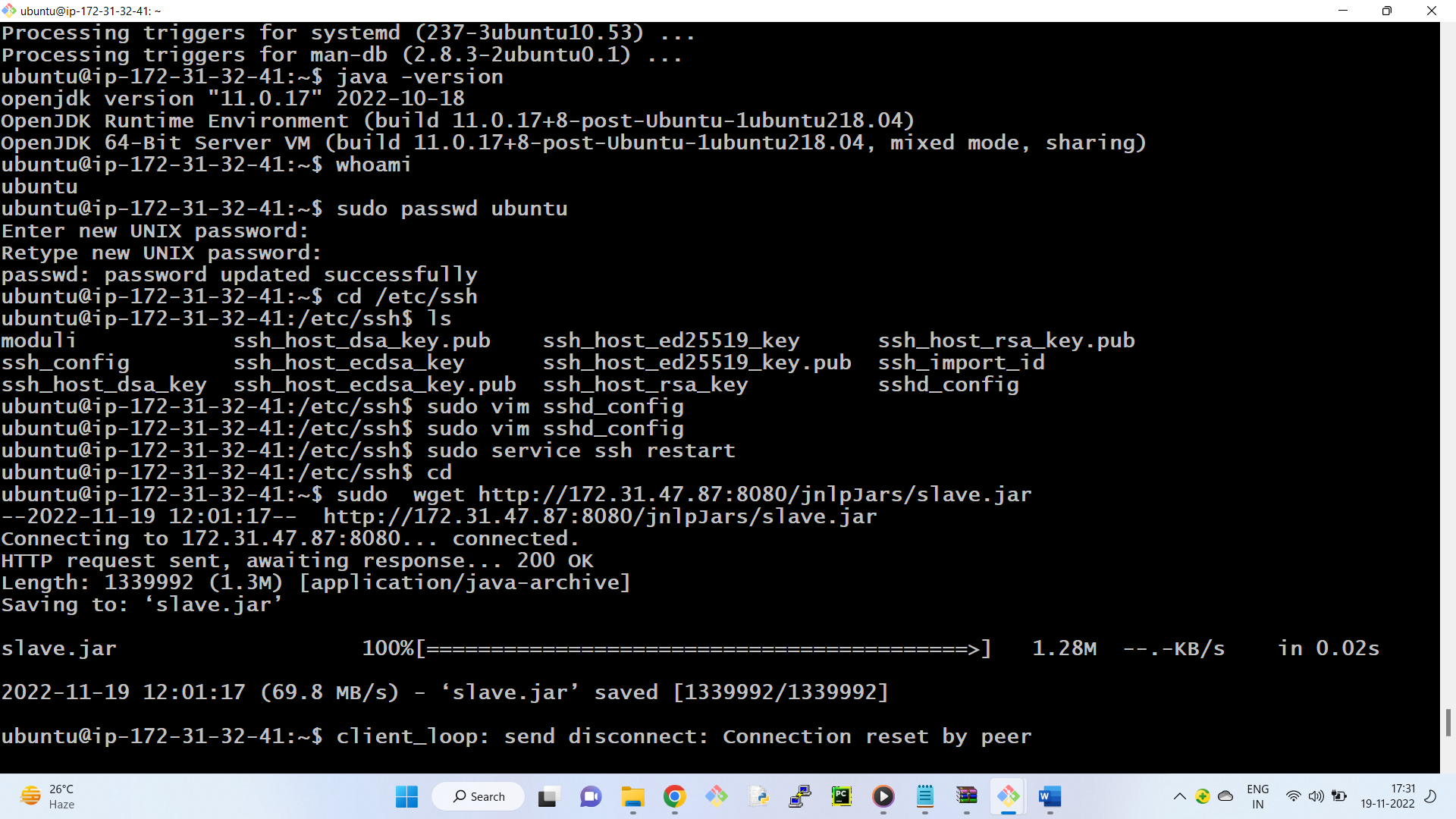
19) now we are able to connect to the slave user without password

$ ssh [ubuntu@172.31.1.107](mailto:ubuntu@172.31.1.107)



Download slave.jar in slave machine

sudo wget <http://devserverpvtip:8080/jnlpJars/slave.jar>



Check the file is download or not

$ ls

check the file permissions

$ ls -l

we want rwxr--r--

3) Give execute permissions of this file

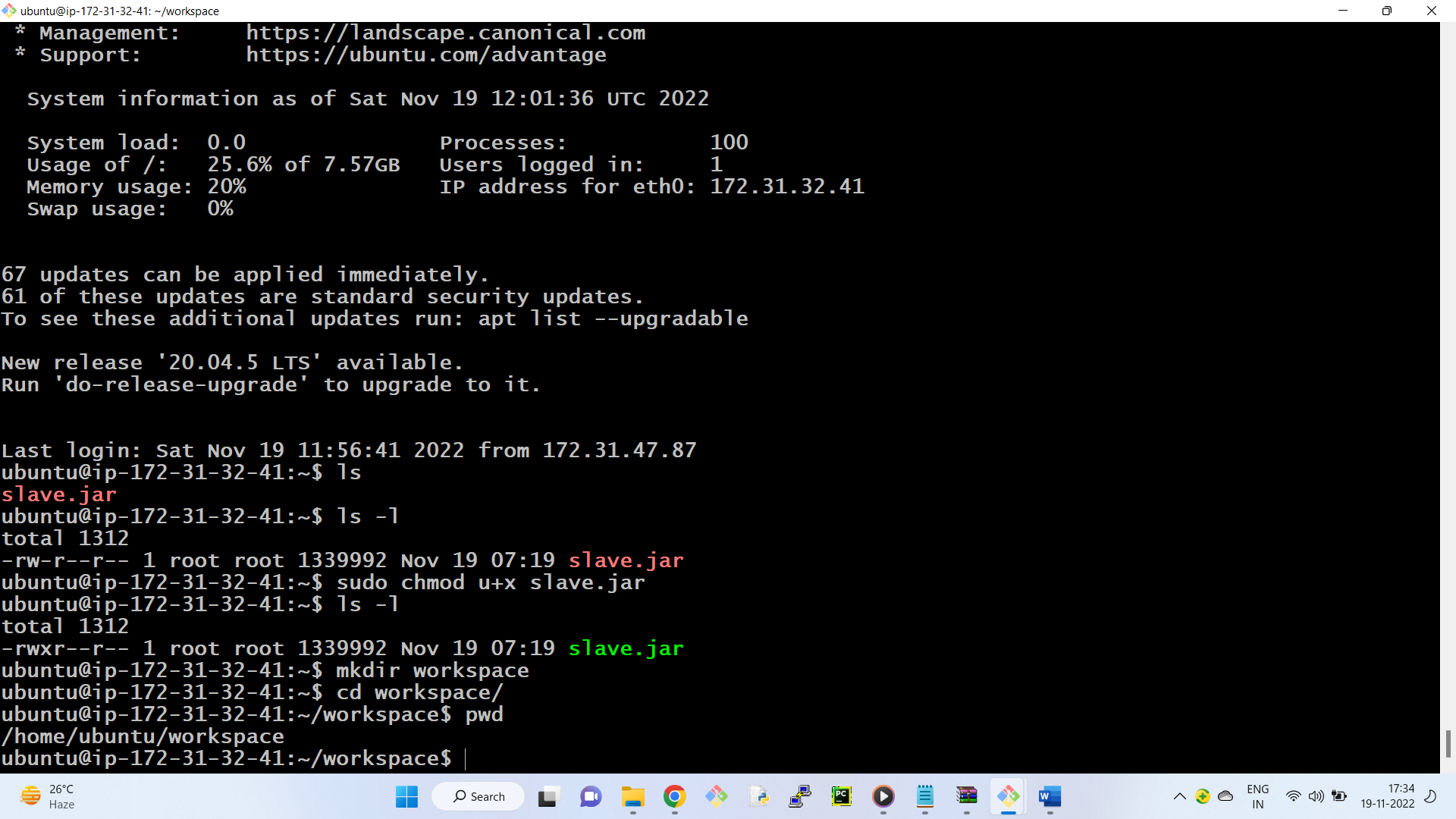
sudo chmod u+x slave.jar

4) Create an empty folder which will work like workspace for jenkins to use on the slave machine

$ mkdir workspace

$ cd workspace

$ pwd ( note the path of the workspace )-- /home/ubuntu/workspace

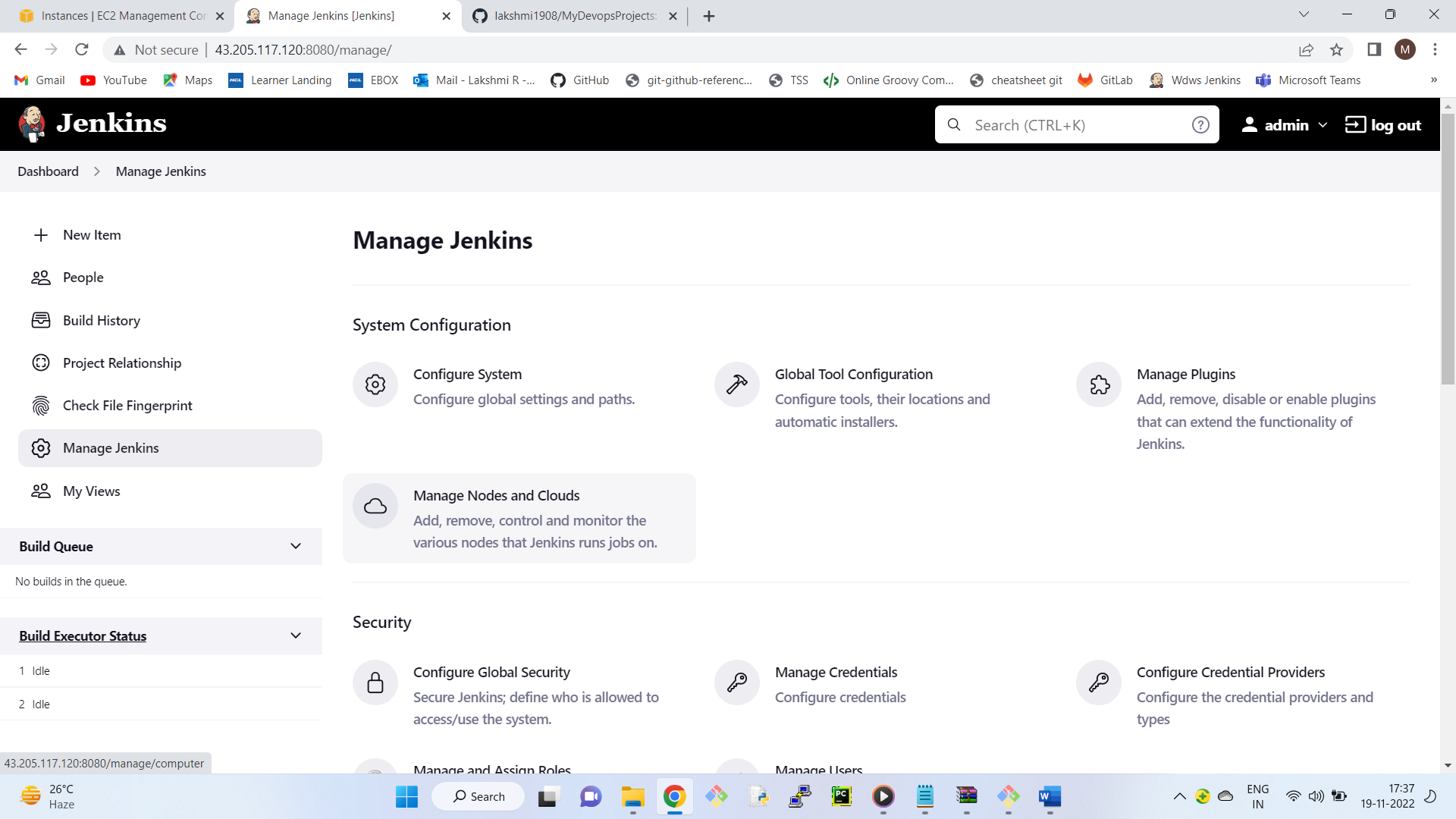


Creating node in Jenkins

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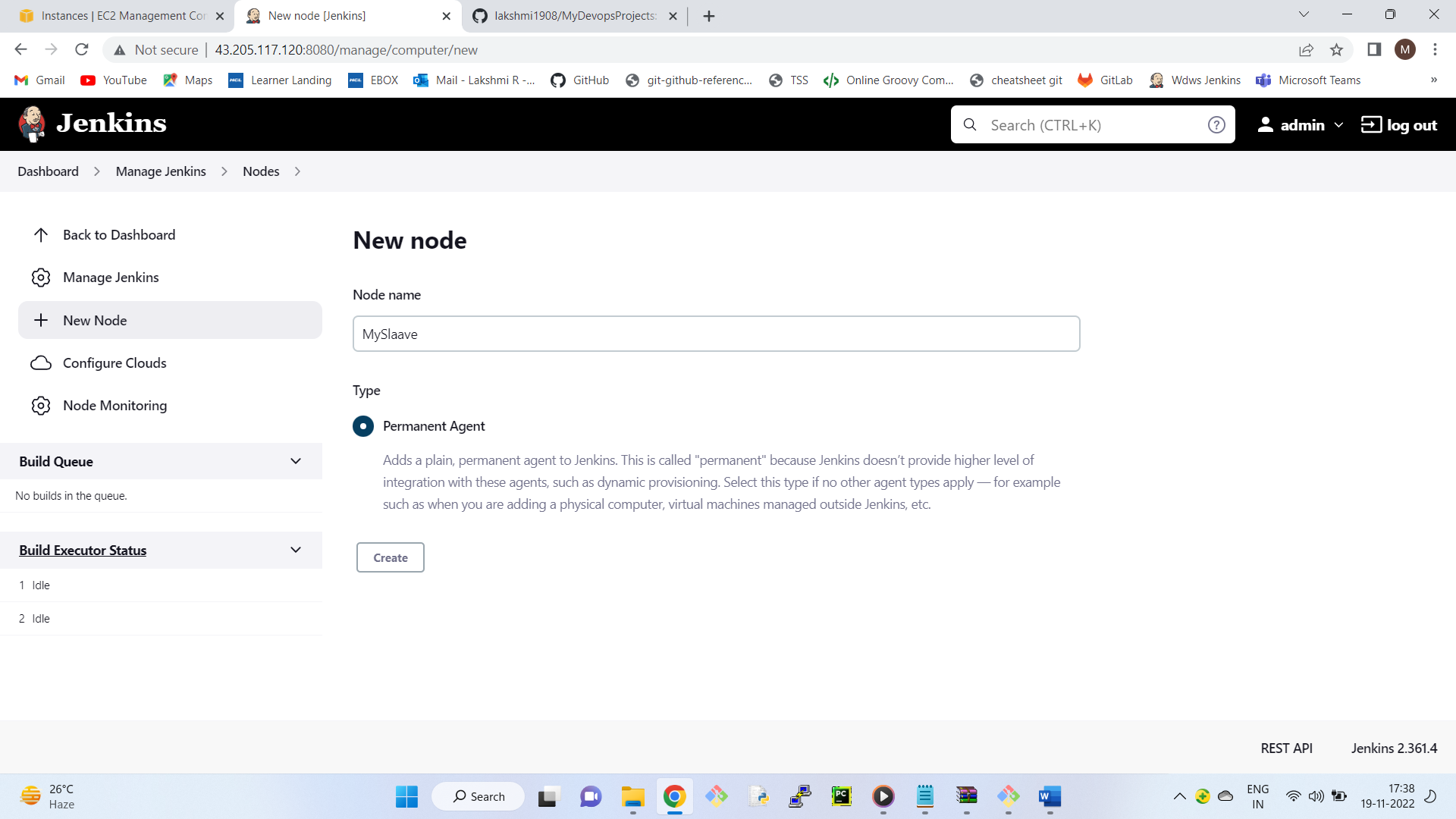
Open the dashboard of jenkins

manage jenkins --- manage nodes



7) Click on new node ---- node name - Myslave

- select permanent agent



Remote root directory -/home/ubuntu/workspace

Label - Slave\_lab

10) Go to Launch method

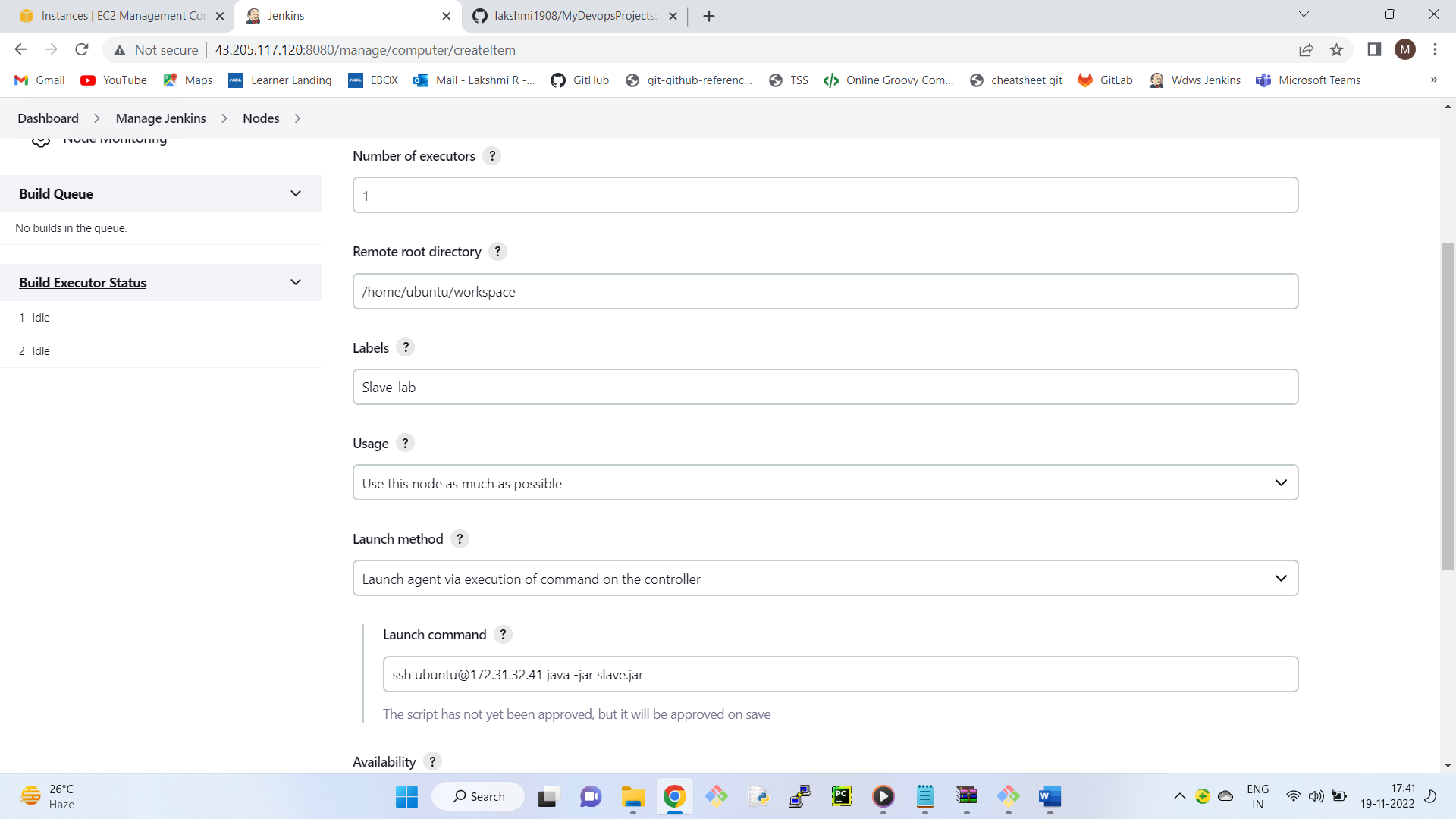
Select Launch agent via execution of command on the controller

11) In Launch command

ssh ubuntu@private\_ip\_of\_slave java -jar slave.jar

ssh ubuntu@172.31.1.107 java -jar slave.jar

13) Click on save



Configure job to run on slave

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14) Select Testing Job

15) Go to Configure --> General Tab

17) Check Restrict where this project can be run

18) Enter Label Expression ( Slave\_lab)

Apply ---> Save

Run the job, In console output, we can see the job is executed in slave machine

