Jenkins Master-Slave Configuration

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1. Create two ec2 instances (Amazon Linux)

2. One is named as Master and other one is Slave

3. in Master, Installed Java and Jenkins

Scripts to install java & Jenkins

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#!/bin/bash

#Download the java

cd /tmp

wget -c --header "Cookie: oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm

#install

rpm -ivh jdk-8u131-linux-x64.rpm

#delete the rpm after java installatin

rm -f jdk-8u131-linux-x64.rpm

#jenkins installatin

#Enable EPEL

wget -O /etc/yum.repos.d/jenkins.repo \

https://pkg.jenkins.io/redhat-stable/jenkins.repo

#installing with rpm

rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

#update

yum update -y

sudo amazon-linux-extras install epel

yum install daemonize -y

#install jenkins

yum install jenkins -y

#start

systemctl start jenkins

#os level service

systemctl enable jenkins

#check status

systemctl status jenkins

4. In Slave, Installed Only Java

# download the java

wget -c --header "Cookie: oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm

# Install the java

rpm -ivh jdk-8u131-linux-x64.rpm

5. Login to master and do password less setup, from Jenkins (master) bash to slave (rootuser)

**🡺** Generate ssh keys in jenkins master and (paste the keys is Jenkins- slave .ssh/authorized keys) (root user)

🡺 connect to Jenkins’s master (ssh root@slaveip) to Jenkins slave

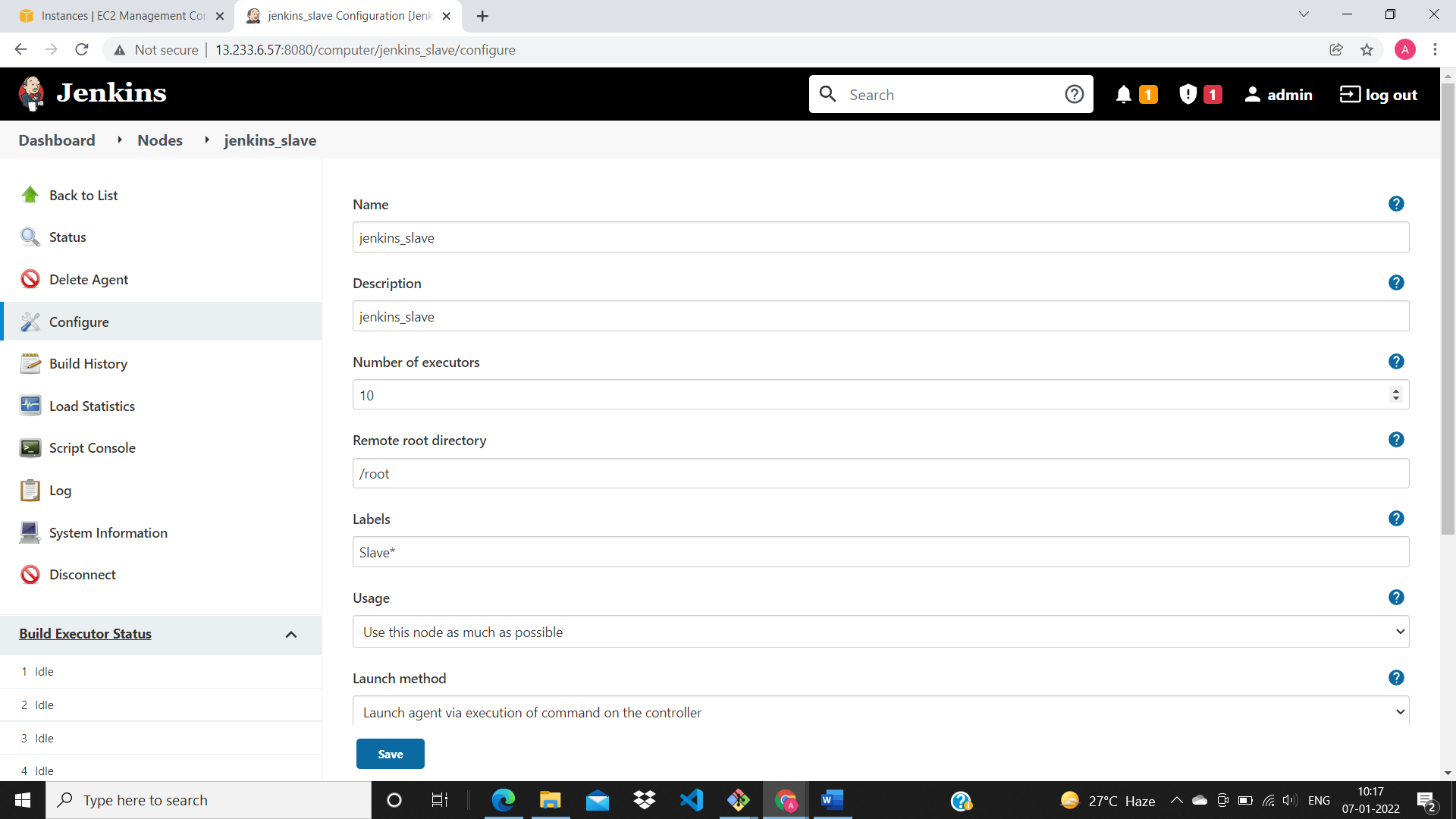
6. Then you have to access Master Jenkins in google chrome, It will shows jenkins UI

7. In Jenkins dashboard, Manage jenkins 🡪

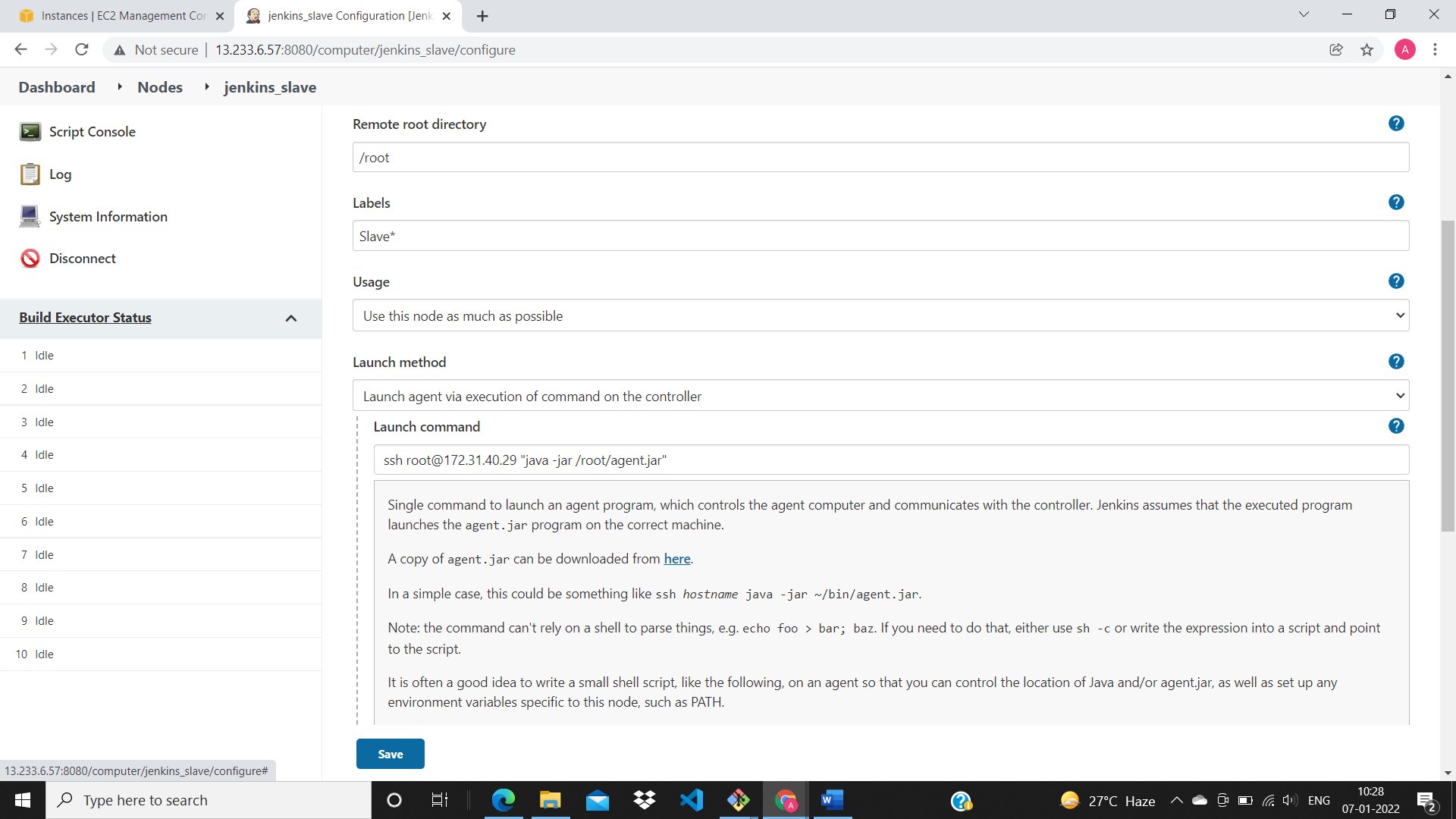
Manage Nodes 🡪

New Node 🡪

You have to give your slave name like “jenkins\_slave”



Note: remote root directory path == where ever you added ssh credentials pub-key in authorized\_keys (/root)



Click Question mark on right side of Launch Command.

**COMMAND:** ssh *hostname* java -jar ~/bin/agent.jar.

**Ex: you have to run command as a jenkins master**

**Like :**

ssh root@slave(private ip) java –jar /root/agent.jar

In above Picture I have marked on “A copy of agent.jar can be downloaded from here”

8. You have to copy link address from agent.jar can be downloaded from here.

**To download agent.jar file in Jenkins slave. Under root user**

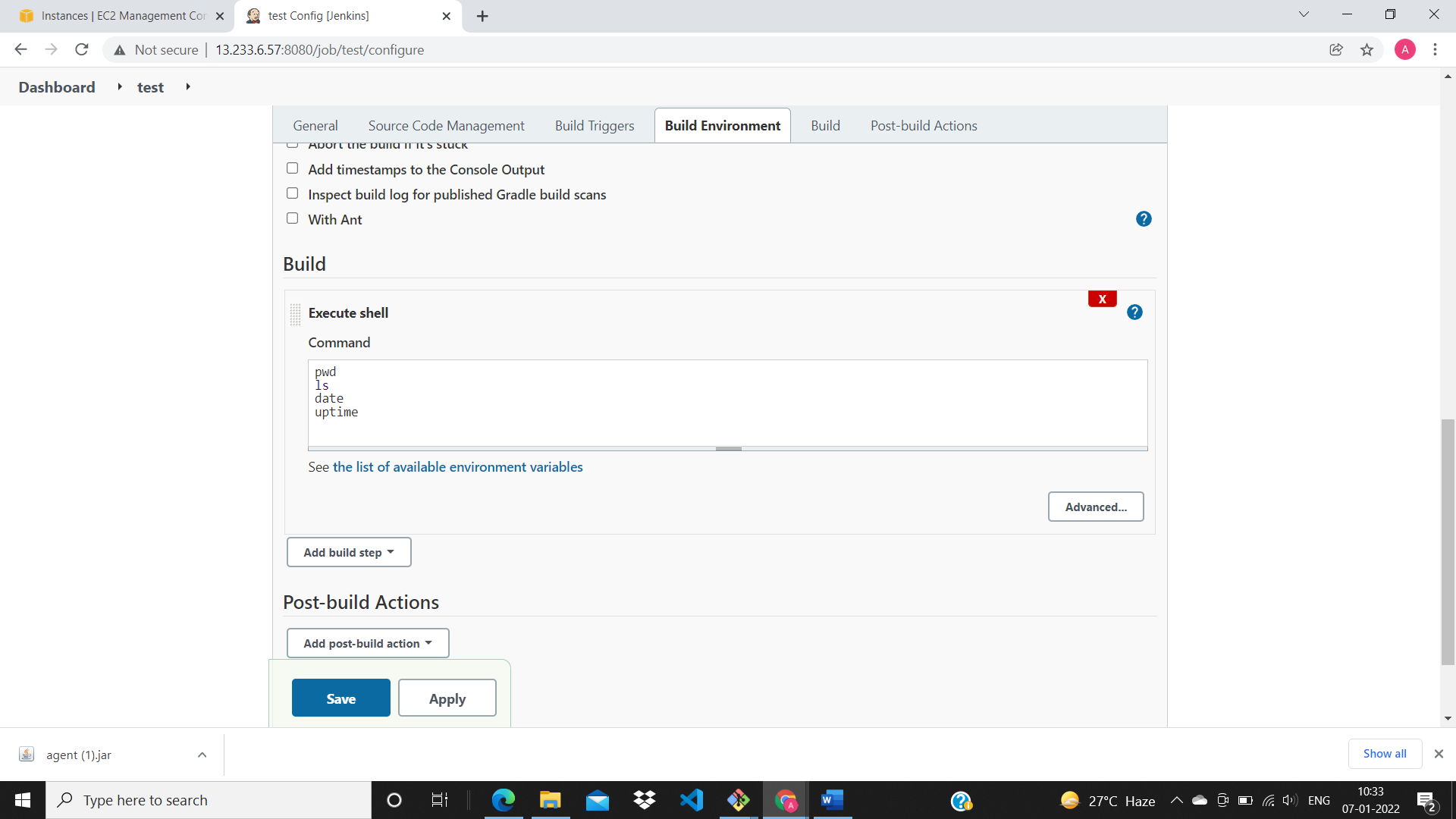
**CMD:**

wget http://13.233.6.57:8080/jnlpJars/agent.jar

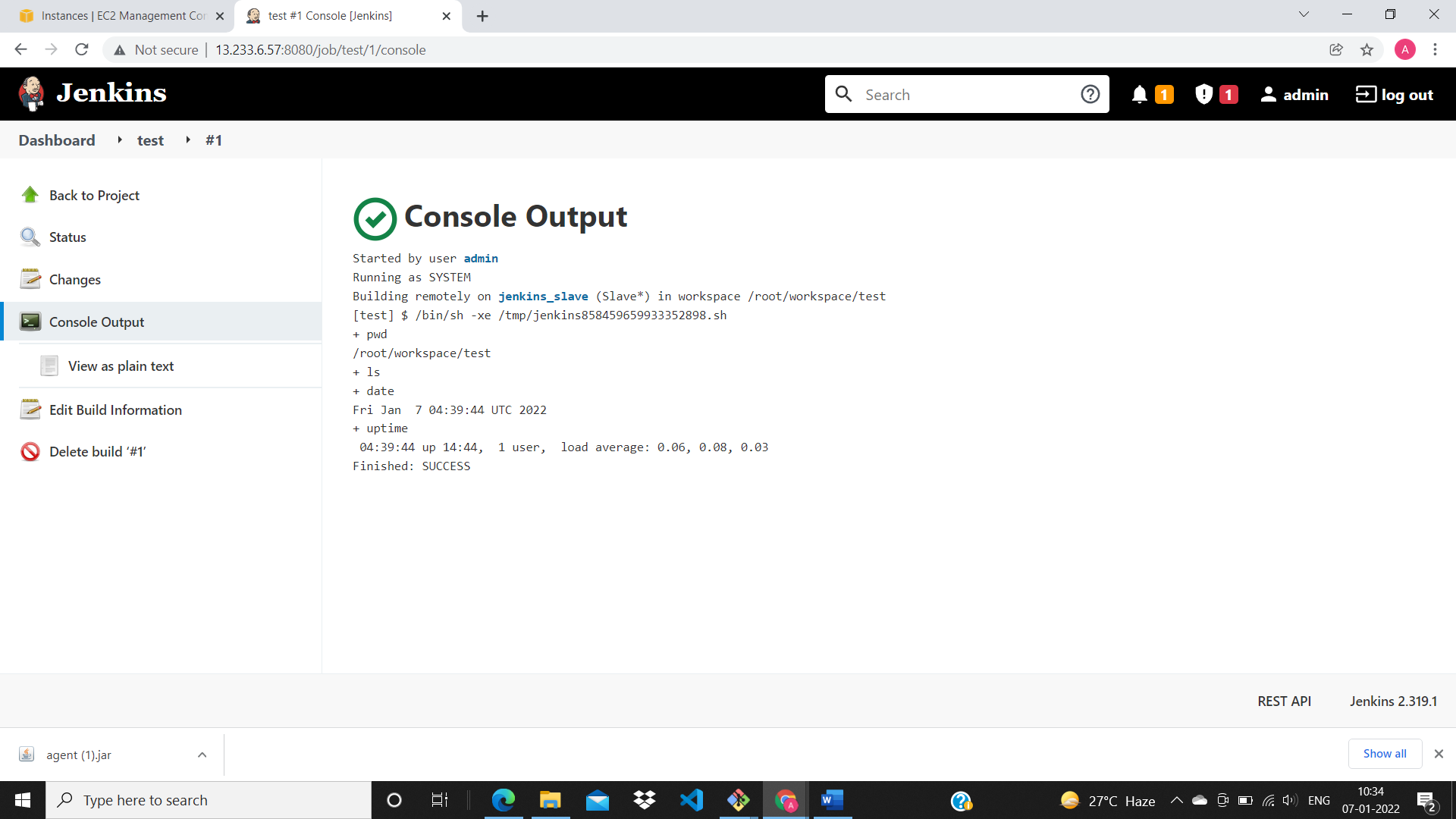
9. Finally Mange Jenkins 🡪 Configuration System 🡪 Usage



10. Then finally, you have to ready to build your jobs In Slave automatically.



***Output***



***Create another slave -1***

1. In Slave, Installed Only Java

# download the java

wget -c --header "Cookie: oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm

# Install the java

rpm -ivh jdk-8u131-linux-x64.rpm

2. Login to master and do password less setup, from Jenkins (master) bash to slave-1 (rootuser)

**🡺** Generate ssh keys in jenkins master and (paste the keys is Jenkins- slave-1 .ssh/authorized keys) (root user)

🡺 connect to Jenkins’s master (ssh root@slaveip) to Jenkins slave-1

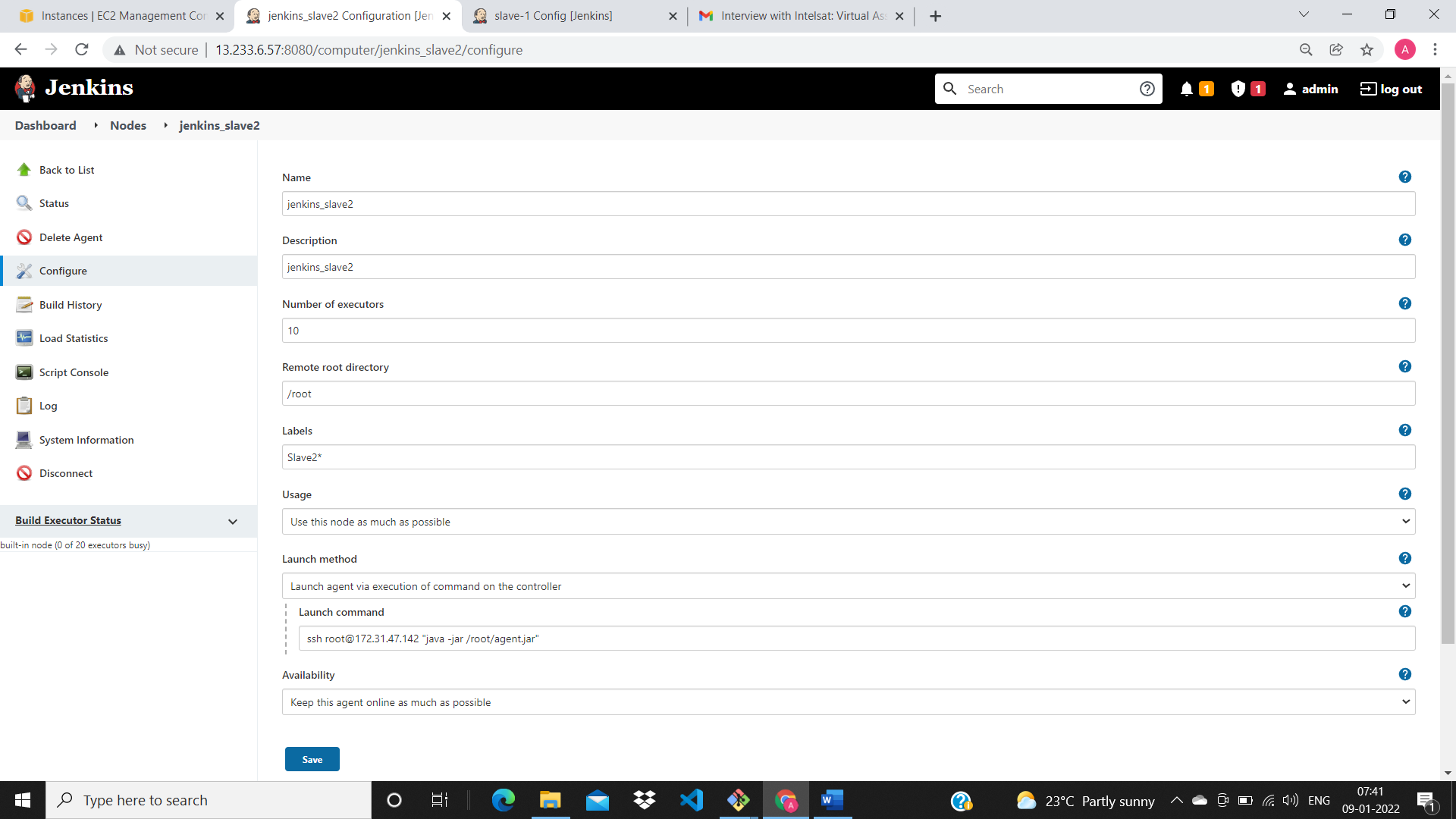
3. Then you have to access Master Jenkins in google chrome, It will shows jenkins UI

4. In Jenkins dashboard, Manage jenkins 🡪

Manage Nodes 🡪

New Node 🡪

You have to give your slave -1 name like “jenkins\_slave-1”



Note: remote root directory path == where ever you added ssh credentials pub-key in authorized\_keys (/root)

Click Question mark on right side of Launch Command.

**COMMAND:** ssh *hostname* java -jar ~/bin/agent.jar.

**Ex: you have to run command as a jenkins master**

**Like :**

ssh root@slave(private ip) java –jar /root/agent.jar

In above Picture I have marked on “A copy of agent.jar can be downloaded from here”

5. You have to copy link address from agent.jar can be downloaded from here.

**To download agent.jar file in Jenkins slave. Under root user**

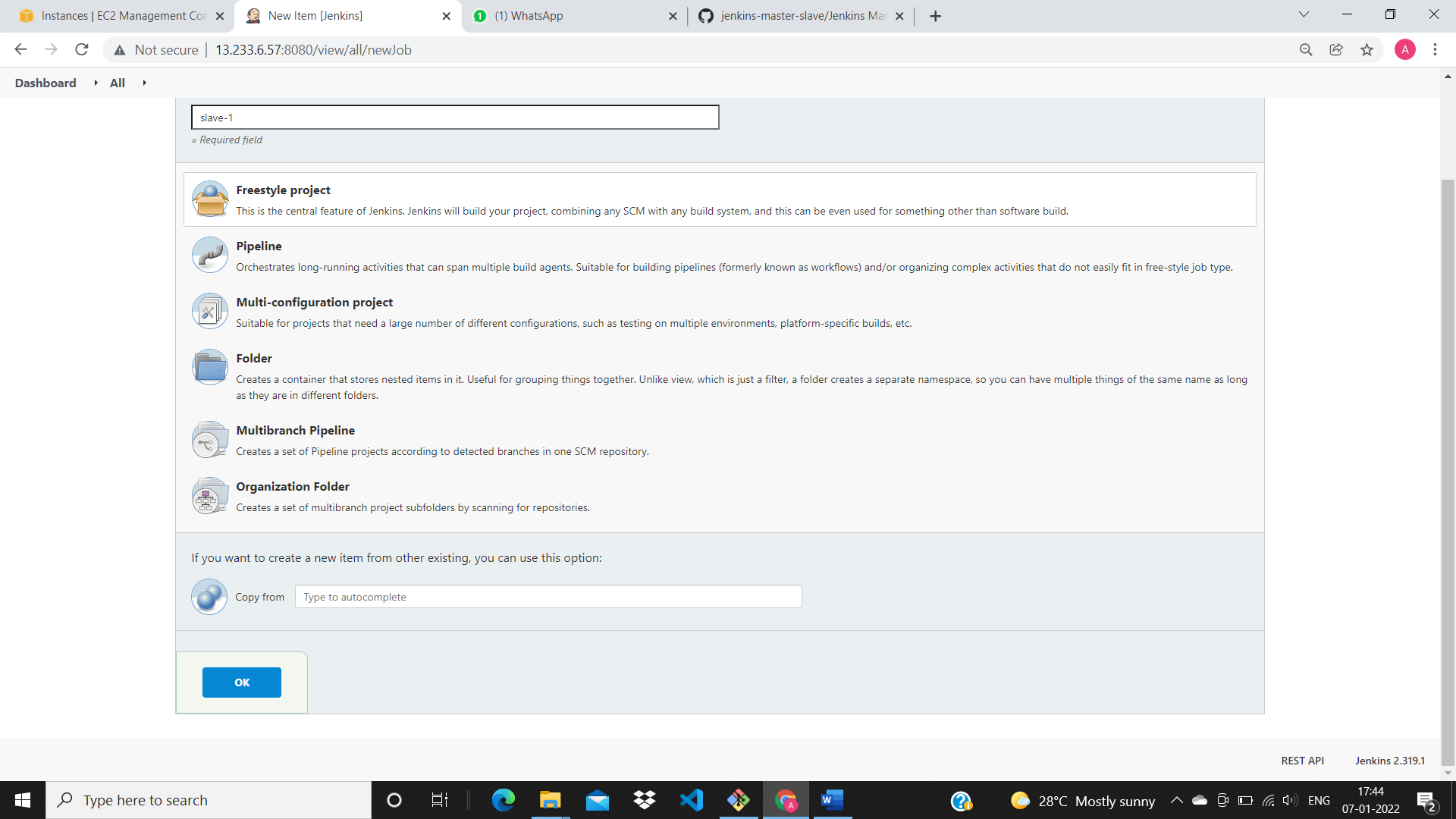
**CMD:**

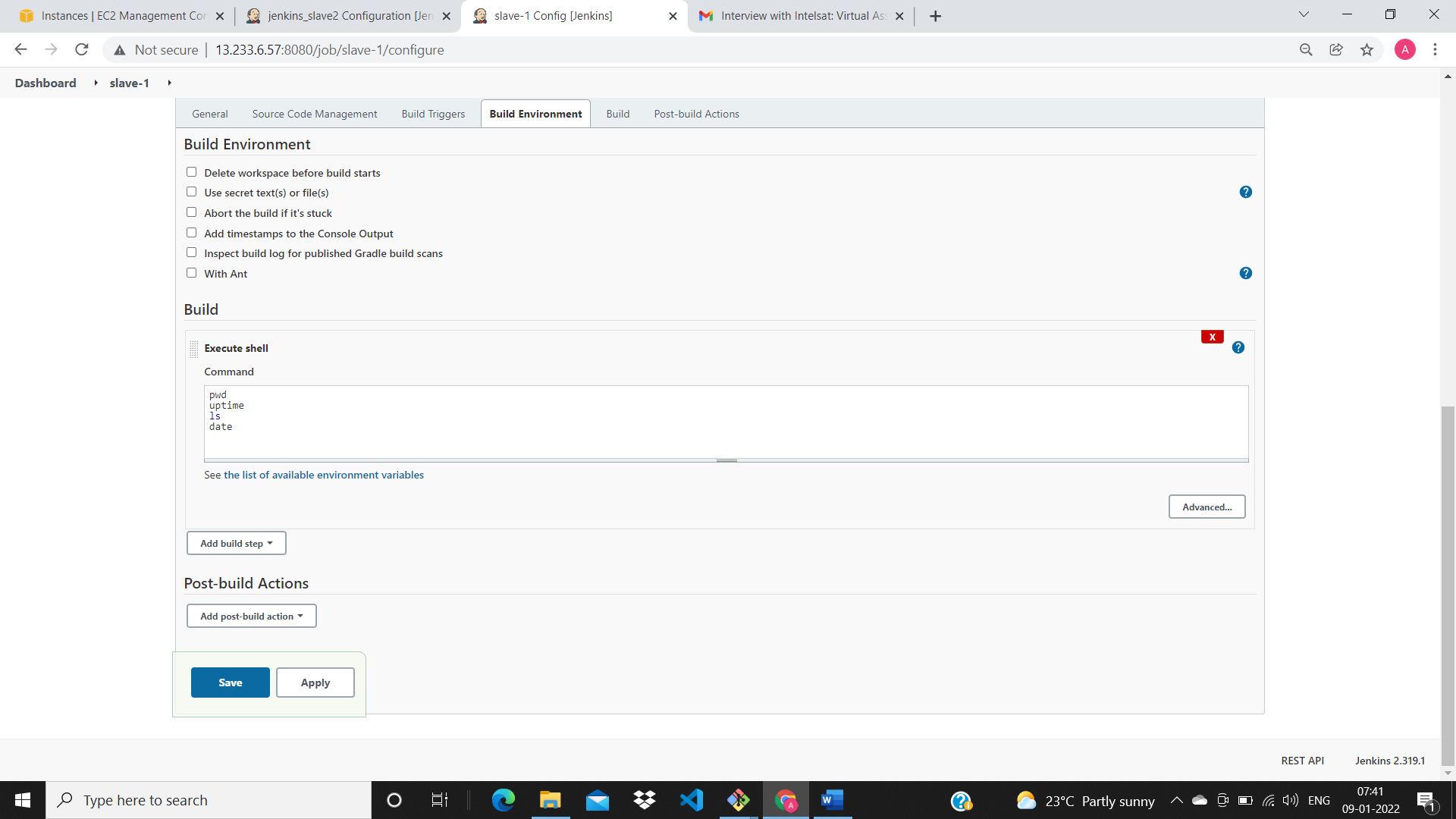
wget <http://13.233.6.57:8080/jnlpJars/agent.jar>

6. Finally Mange Jenkins 🡪 Configuration System 🡪 Usage



7. Then finally, you have to ready to build your jobs In Slave automatically.





***Then save and apply***

***Create another slave -2***

1. In Slave, Installed Only Java

# download the java

wget -c --header "Cookie: oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm

# Install the java

rpm -ivh jdk-8u131-linux-x64.rpm

2. Login to master and do password less setup, from Jenkins (master) bash to slave-2 (rootuser)

**🡺** Generate ssh keys in jenkins master and (paste the keys is Jenkins- slave-1 .ssh/authorized keys) (root user)

🡺 connect to Jenkins’s master (ssh root@slaveip) to Jenkins slave-2

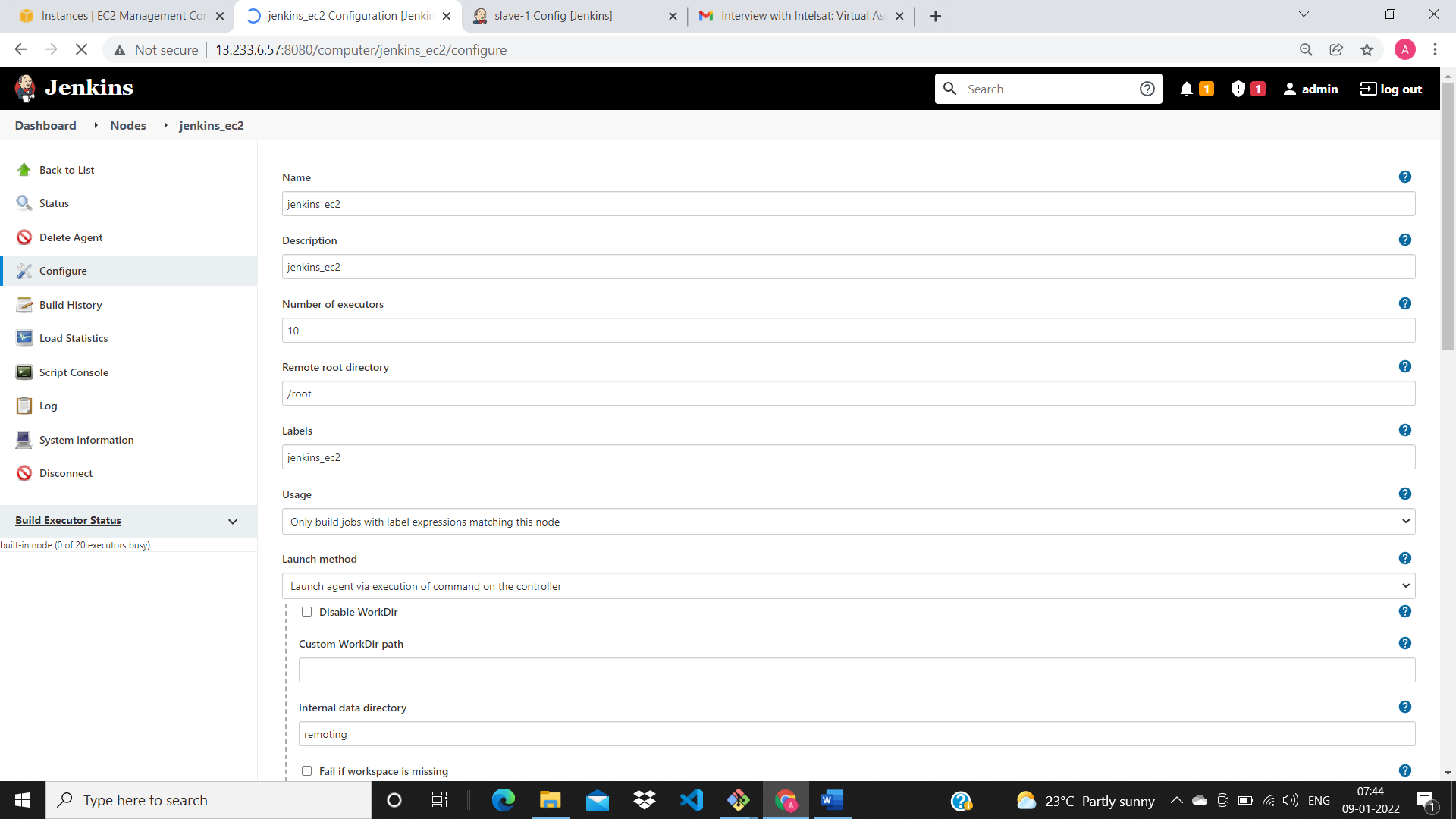
3. Then you have to access Master Jenkins in google chrome, It will shows jenkins UI

4. In Jenkins dashboard, Manage jenkins 🡪

Manage Nodes 🡪

New Node 🡪

You have to give your slave -2 name like “jenkins\_slave-2”



Note: remote root directory path == where ever you added ssh credentials pub-key in authorized\_keys (/root)

Click Question mark on right side of Launch Command.

**COMMAND:** ssh *hostname* java -jar ~/bin/agent.jar.

**Ex: you have to run command as a jenkins master**

**Like :**

ssh root@slave(private ip) java –jar /root/agent.jar

In above Picture I have marked on “A copy of agent.jar can be downloaded from here”

5. You have to copy link address from agent.jar can be downloaded from here.

**To download agent.jar file in Jenkins slave. Under root user**

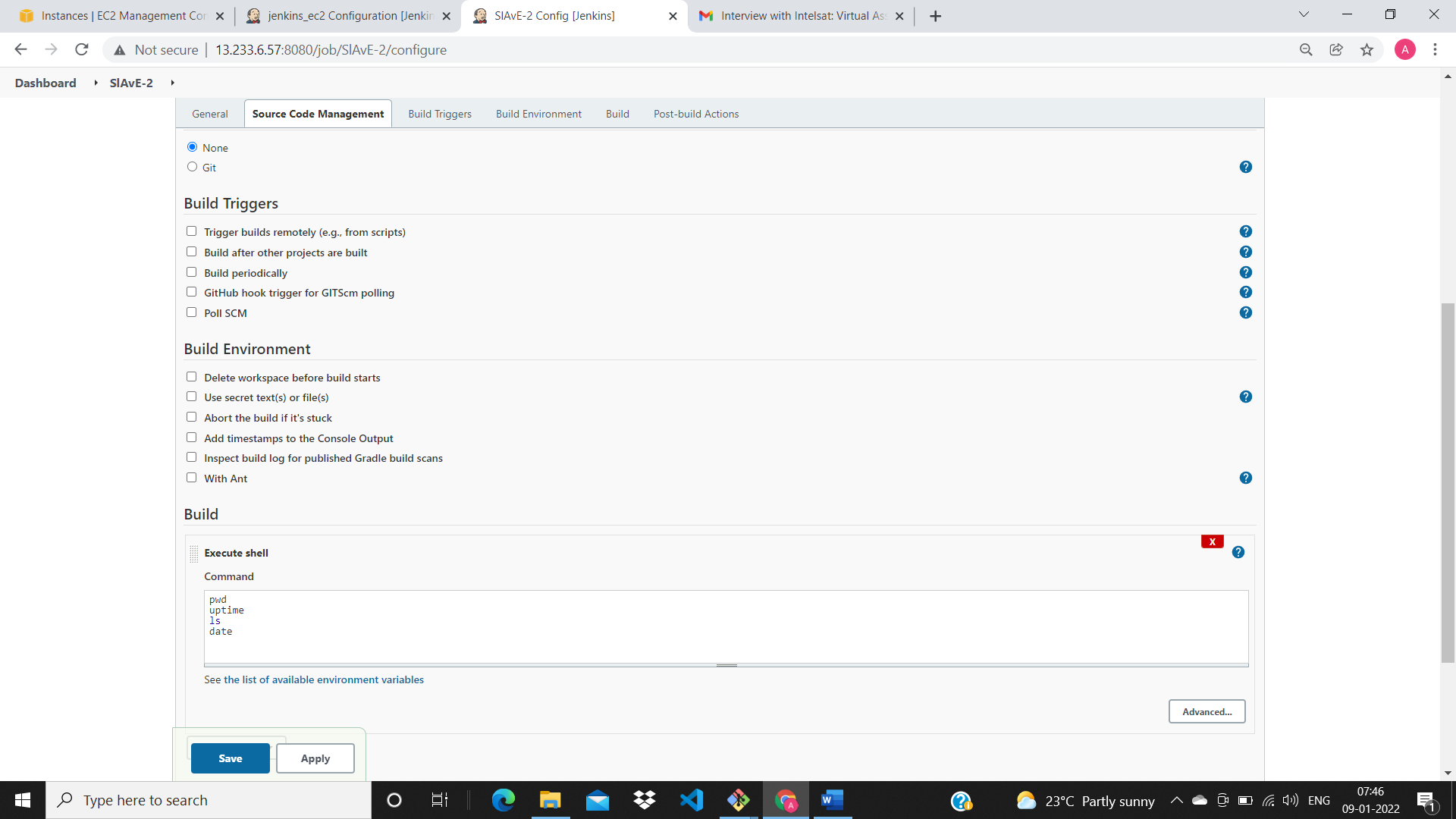
**CMD:**

wget <http://13.233.6.57:8080/jnlpJars/agent.jar>

6. Finally Mange Jenkins 🡪 Configuration System 🡪 Usage



7. Then finally, you have to ready to build your jobs In Slave automatically.



***Then save and apply***

***Thanks***

***Fallow on instagram -anjuyadav@143***