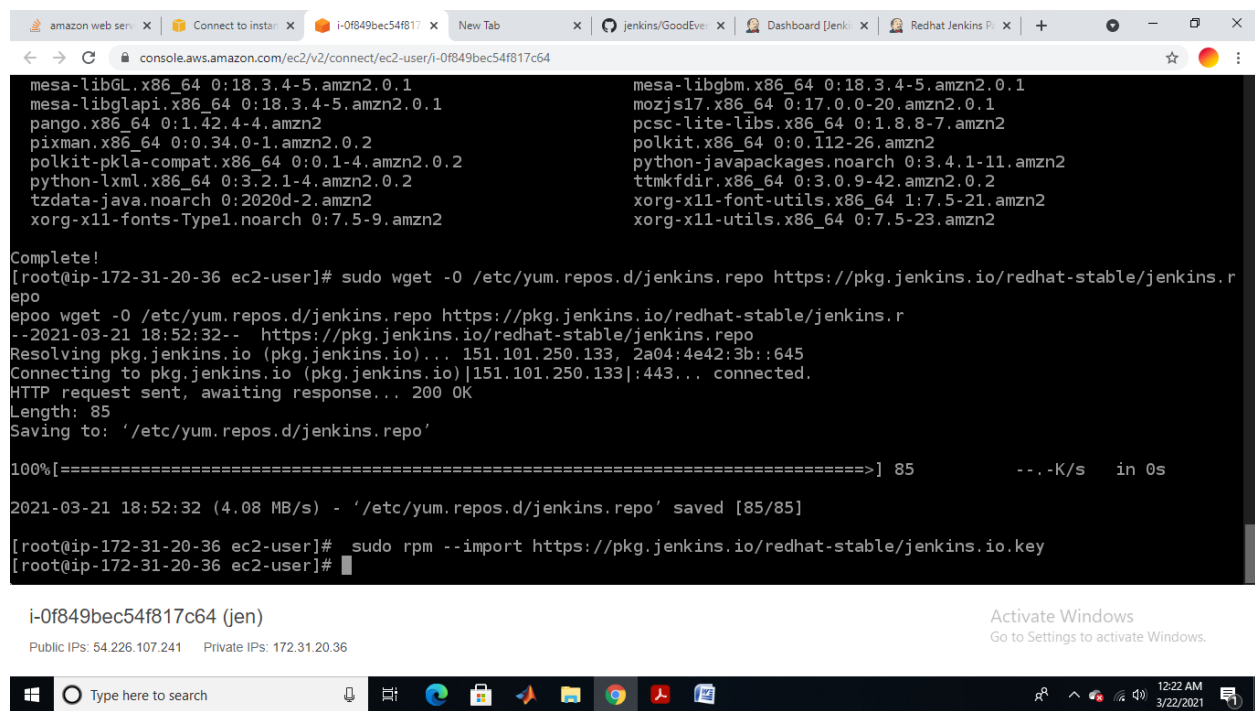


PROJECT-7

PROJECT-DEVOPS-JENKINS-INSTALLATION AND CONFIGURATION ON LINUX

USE THE WEBSITE [HTTPS://PKG.JENKINS.IO/REDHAT-STABLE/](https://pkg.jenkins.io/redhat-stable/) AND FIRST 2 COMMANDS TO DOWNLOAD JENKINS.



```
mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libglapi.x86_64 0:18.3.4-5.amzn2.0.1
pango.x86_64 0:1.42.4-4.amzn2
pixman.x86_64 0:0.34.0-1.amzn2.0.2
polkit-pkla-compat.x86_64 0:0.1-4.amzn2.0.2
python-lxml.x86_64 0:3.2.1-4.amzn2.0.2
tzdata-java.noarch 0:2020d-2.amzn2
xorg-x11-fonts-Type1.noarch 0:7.5-9.amzn2
mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1
mozjs17.x86_64 0:17.0.0-20.amzn2.0.1
pcsc-lite-libs.x86_64 0:1.8.8-7.amzn2
polkit.x86_64 0:0.112-26.amzn2
python-javapackages.noarch 0:3.4.1-11.amzn2
ttmkfdir.x86_64 0:3.0.9-42.amzn2.0.2
xorg-x11-font-utils.x86_64 1:7.5-21.amzn2
xorg-x11-utils.x86_64 0:7.5-23.amzn2

Complete!
[root@ip-172-31-20-36 ec2-user]# sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.r
epo
epoo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.r
--2021-03-21 18:52:32-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.133, 2a04:4e42:3b::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.250.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

100%[=====] 85 --.-K/s in 0s

2021-03-21 18:52:32 (4.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@ip-172-31-20-36 ec2-user]# sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
[root@ip-172-31-20-36 ec2-user]#
```

i-0f849bec54f817c64 (jen)

Public IPs: 54.226.107.241 Private IPs: 172.31.20.36

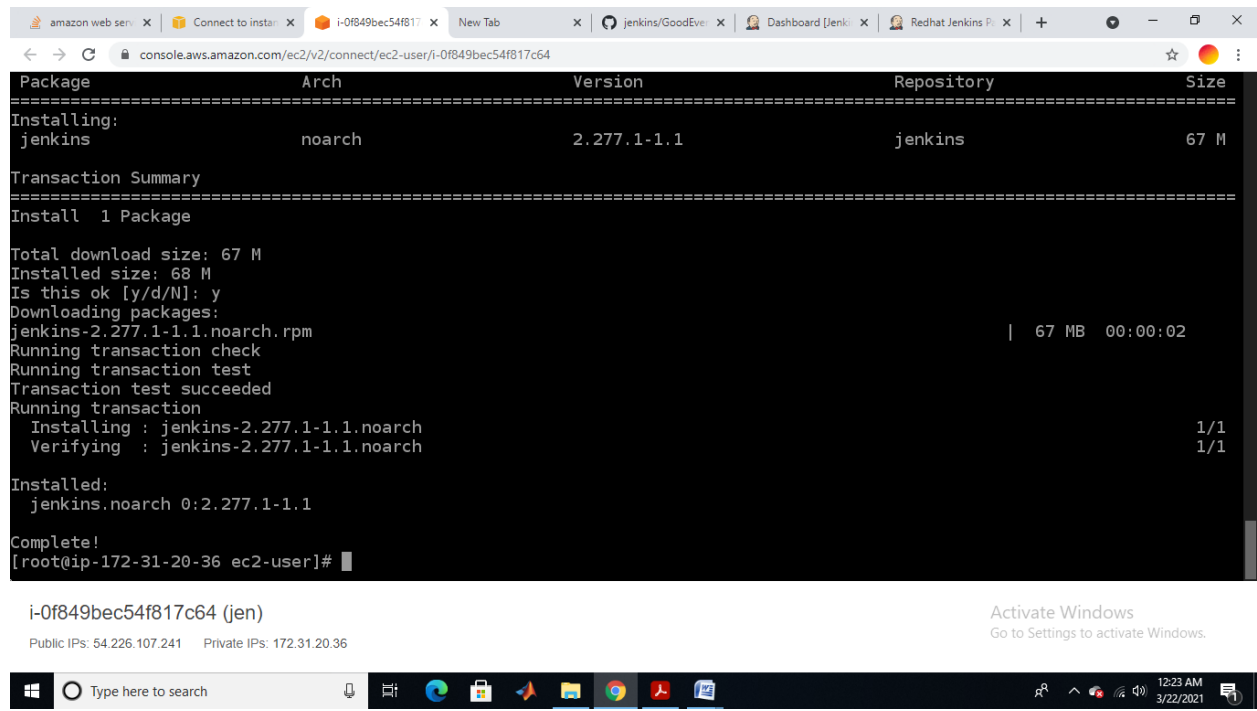
Activate Windows
Go to Settings to activate Windows.

Type here to search

12:22 AM
3/22/2021

AFTER THIS, USE YUM INSTALL JENKINS COMMAND.

2 | LETS UPGRADE AWS ...



The screenshot shows the AWS Management Console for an EC2 instance named 'i-0f849bec54f817c64'. The terminal window displays the output of the 'yum install jenkins' command. The installation progress is shown as a table with columns: Package, Arch, Version, Repository, and Size. The package 'jenkins' is being installed from the 'jenkins' repository, version '2.277.1-1.1', with a size of '67 M'. The transaction summary shows that the package is being installed and verified. The installation is complete, and the user is prompted to enter a command at the root prompt.

Package	Arch	Version	Repository	Size
jenkins	noarch	2.277.1-1.1	jenkins	67 M

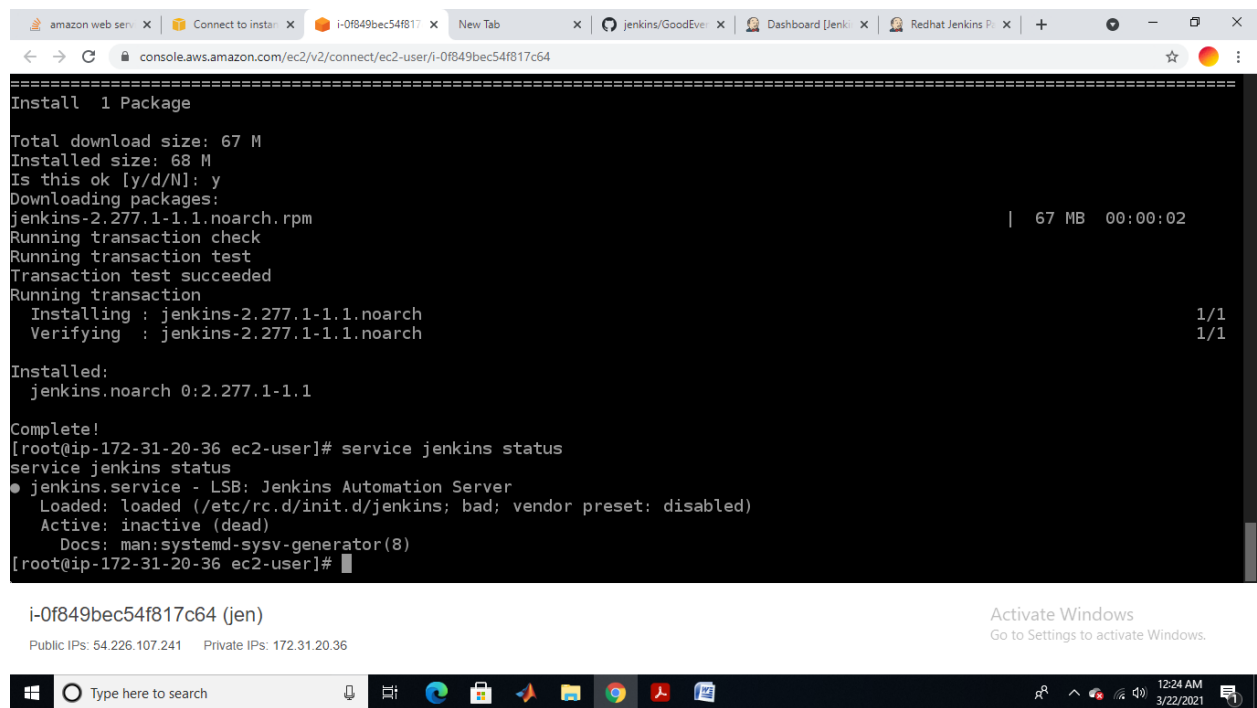
Transaction Summary
Install 1 Package

Total download size: 67 M
Installed size: 68 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.277.1-1.1.noarch.rpm | 67 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : jenkins-2.277.1-1.1.noarch 1/1
Verifying : jenkins-2.277.1-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.277.1-1.1
Complete!
[root@ip-172-31-20-36 ec2-user]#

i-0f849bec54f817c64 (jen)
Public IPs: 54.226.107.241 Private IPs: 172.31.20.36

Activate Windows
Go to Settings to activate Windows.

JENKINS IS NOT STARTED SO START IT.



The screenshot shows the AWS Management Console for the same EC2 instance. The terminal window displays the output of the 'service jenkins status' command. The output shows that the Jenkins service is loaded but inactive (dead). The user is prompted to enter a command at the root prompt.

```
Install 1 Package

Total download size: 67 M
Installed size: 68 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.277.1-1.1.noarch.rpm | 67 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : jenkins-2.277.1-1.1.noarch 1/1
Verifying : jenkins-2.277.1-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.277.1-1.1
Complete!
[root@ip-172-31-20-36 ec2-user]# service jenkins status
service jenkins status
● jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:systemd-sysv-generator(8)
[root@ip-172-31-20-36 ec2-user]#
```

i-0f849bec54f817c64 (jen)
Public IPs: 54.226.107.241 Private IPs: 172.31.20.36

Activate Windows
Go to Settings to activate Windows.

3 | LETS UPGRADE AWS ...

The screenshot displays the AWS Management Console for an EC2 instance named 'i-0f849bec54f817c64'. The terminal window shows the installation of Jenkins 2.277.1-1.1.noarch.rpm. The process includes downloading the package (67 MB), running transaction checks, and successful installation. The service status is shown as 'inactive (dead)'. The user then starts the service, which returns '[OK]'.

```
Total download size: 67 M
Installed size: 68 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.277.1-1.1.noarch.rpm | 67 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : jenkins-2.277.1-1.1.noarch 1/1
  Verifying : jenkins-2.277.1-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.277.1-1.1

Complete!
[root@ip-172-31-20-36 ec2-user]# service jenkins status
service jenkins status
● jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:systemd-sysv-generator(8)
[root@ip-172-31-20-36 ec2-user]# service jenkins start
Starting jenkins (via systemctl): [ OK ]
[root@ip-172-31-20-36 ec2-user]#
```

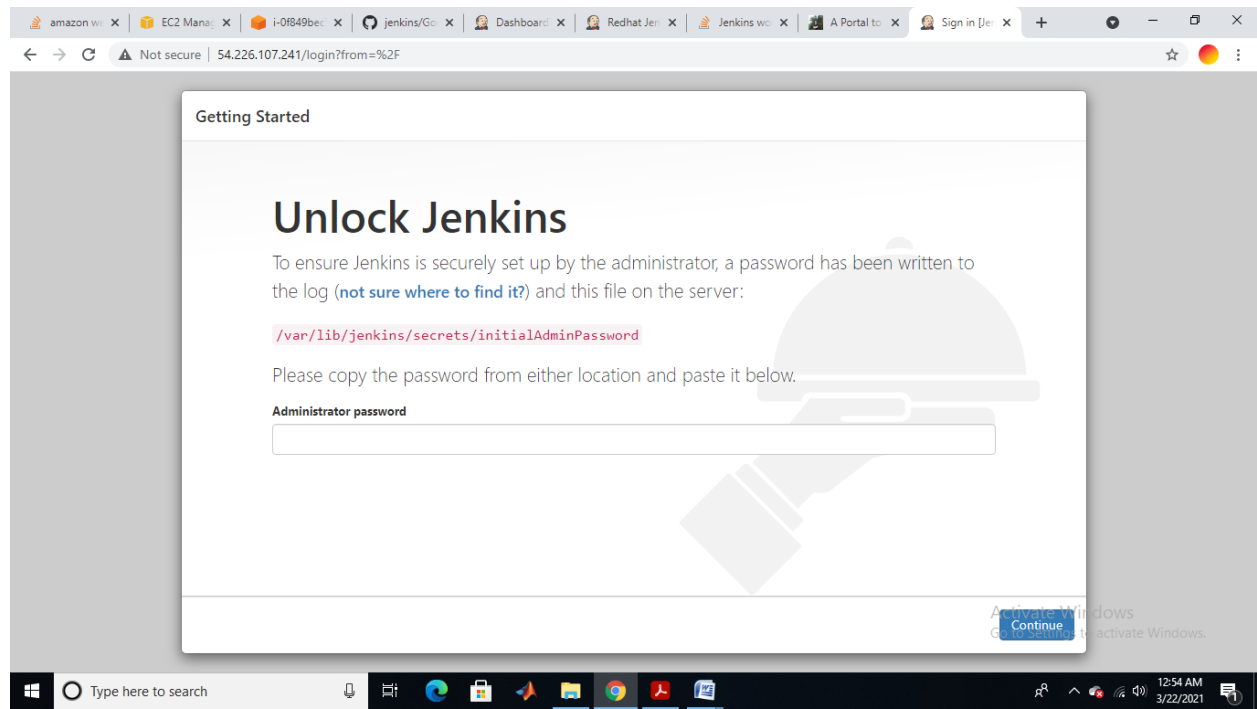
Below the terminal, the instance details are visible, including the public IP address 54.226.107.241 and private IP address 172.31.20.36. The Windows taskbar at the bottom shows the time as 12:25 AM on 3/22/2021.

Below the first screenshot, a second screenshot shows the same console with the command 'service start jenkins' executed. The output indicates that the service is now 'LISTENING' on various ports. The user then restarts the service, which also returns '[OK]'.

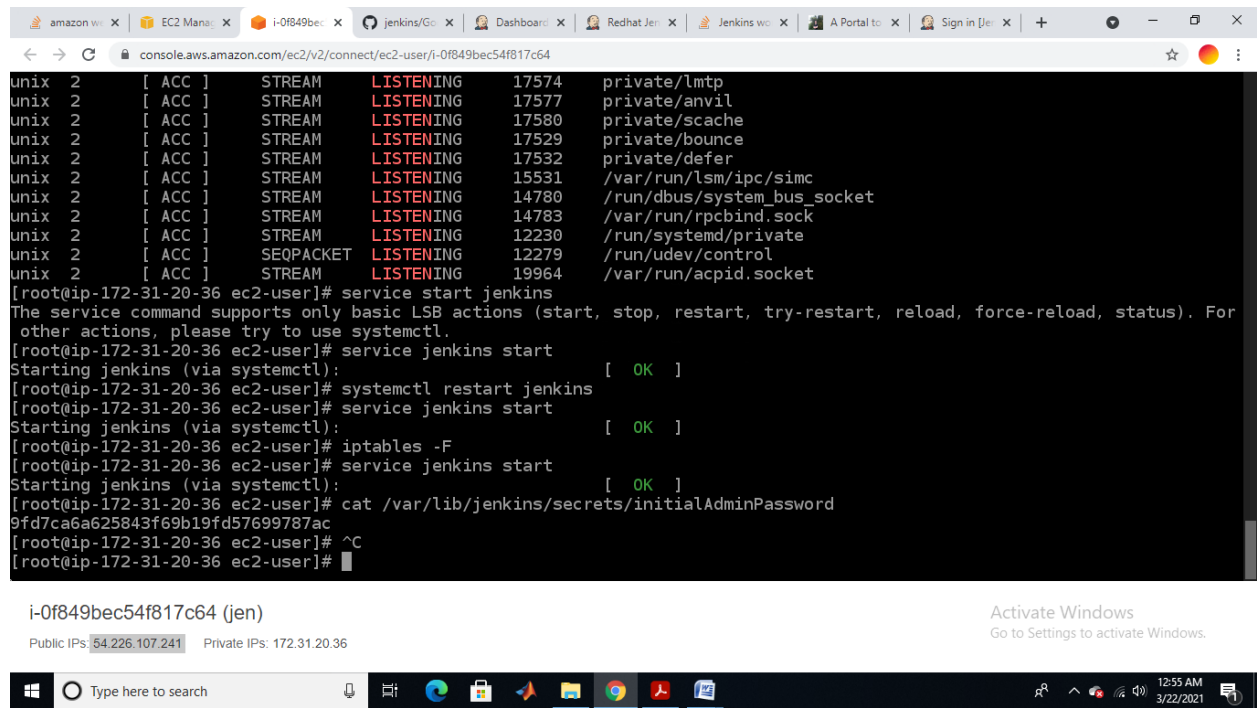
```
unix 2      [ ACC ]     STREAM     LISTENING   17565      private/discard
unix 2      [ ACC ]     STREAM     LISTENING   17568      private/local
unix 2      [ ACC ]     STREAM     LISTENING   17571      private/virtual
unix 2      [ ACC ]     STREAM     LISTENING   17574      private/lmtp
unix 2      [ ACC ]     STREAM     LISTENING   17577      private/anvil
unix 2      [ ACC ]     STREAM     LISTENING   17580      private/scache
unix 2      [ ACC ]     STREAM     LISTENING   17529      private/bounce
unix 2      [ ACC ]     STREAM     LISTENING   17532      private/defer
unix 2      [ ACC ]     STREAM     LISTENING   15531      /var/run/lsm/ipc/simc
unix 2      [ ACC ]     STREAM     LISTENING   14780      /run/dbus/system_bus_socket
unix 2      [ ACC ]     STREAM     LISTENING   14783      /var/run/rpcbind.sock
unix 2      [ ACC ]     STREAM     LISTENING   12230      /run/systemd/private
unix 2      [ ACC ]     SEQPACKET LISTENING   12279      /run/udev/control
unix 2      [ ACC ]     STREAM     LISTENING   19964      /var/run/acpid.socket
[root@ip-172-31-20-36 ec2-user]# service start jenkins
The service command supports only basic LSB actions (start, stop, restart, try-restart, reload, force-reload, status). For
other actions, please try to use systemctl.
[root@ip-172-31-20-36 ec2-user]# service jenkins start
Starting jenkins (via systemctl): [ OK ]
[root@ip-172-31-20-36 ec2-user]# systemctl restart jenkins
[root@ip-172-31-20-36 ec2-user]# service jenkins start
Starting jenkins (via systemctl): [ OK ]
[root@ip-172-31-20-36 ec2-user]# iptables -F
[root@ip-172-31-20-36 ec2-user]# service jenkins start
Starting jenkins (via systemctl): [ OK ]
[root@ip-172-31-20-36 ec2-user]#
```

The second screenshot also shows the instance details and the Windows taskbar with the time as 12:54 AM on 3/22/2021.

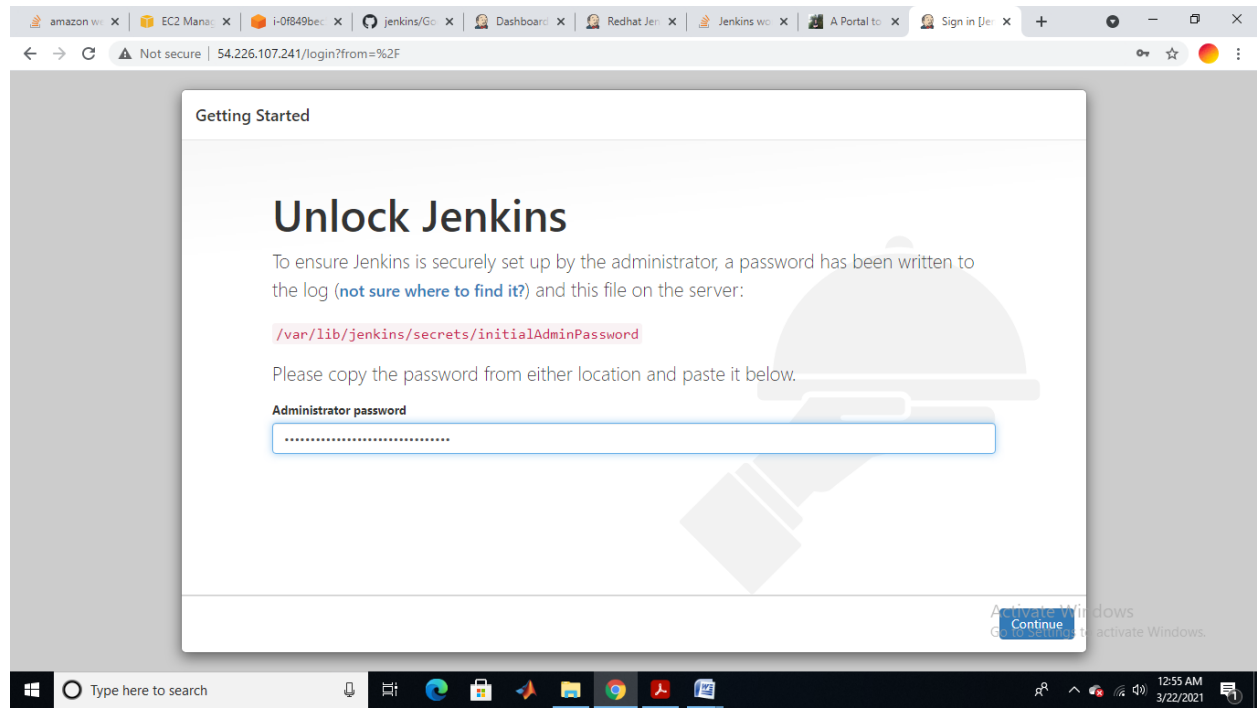
USE SECURITY GROUP INBOUND RULES WITH PORTS SSH, HTTPS, ALL TRAFFIC.



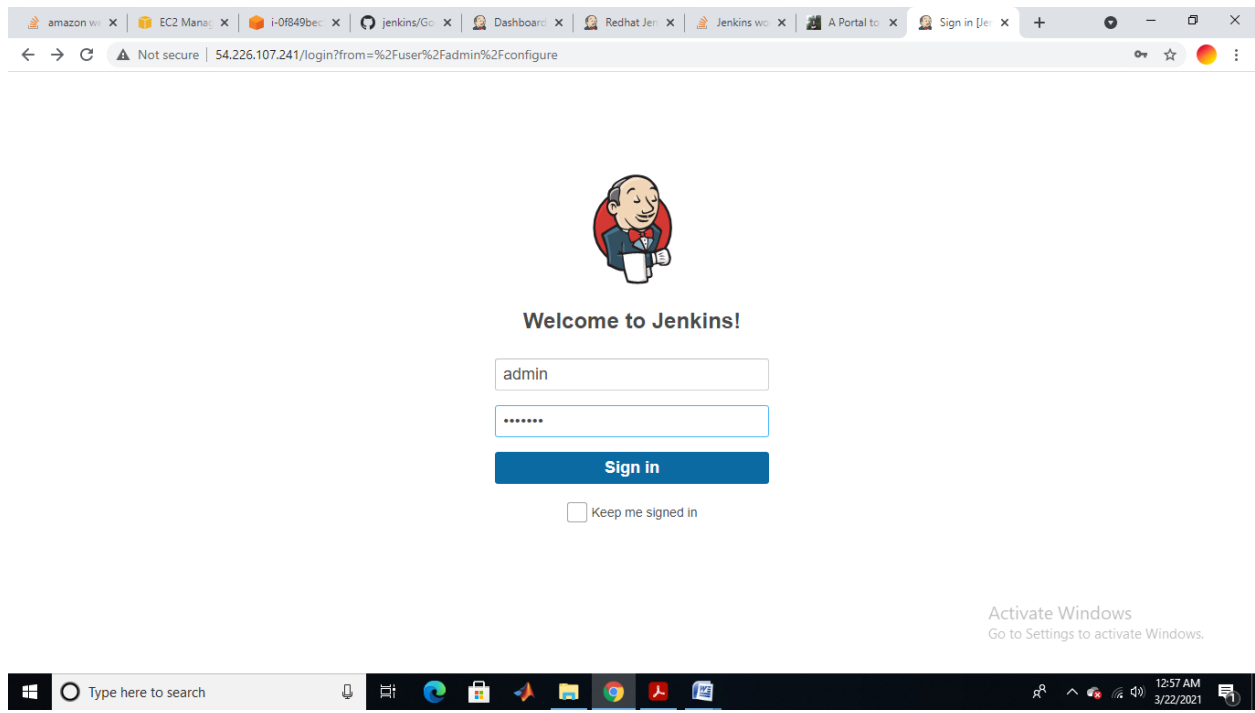
COPY LINK IN RED AND READ FILE IN EC2 CONNECT TO GET PASSWORD.



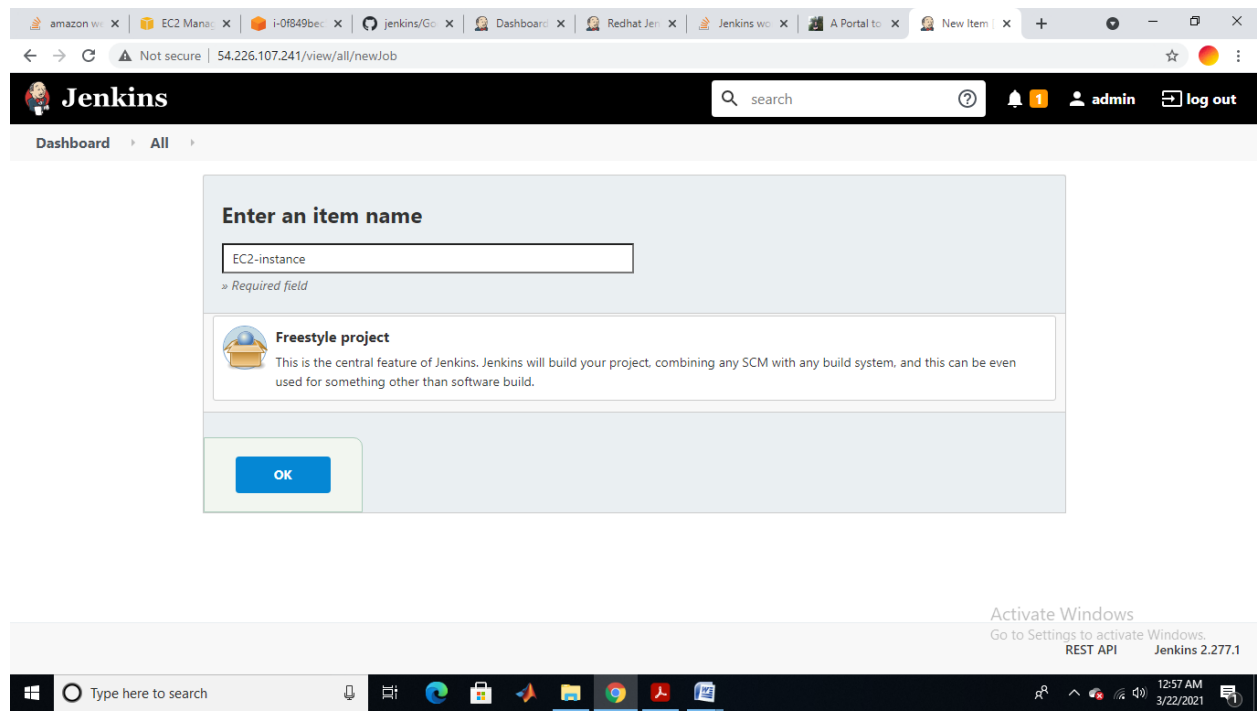
LOGIN USING THE PASSWORD AND CHANGE THE PASSWORD AND RE-LOGIN WITH NEW ONE.



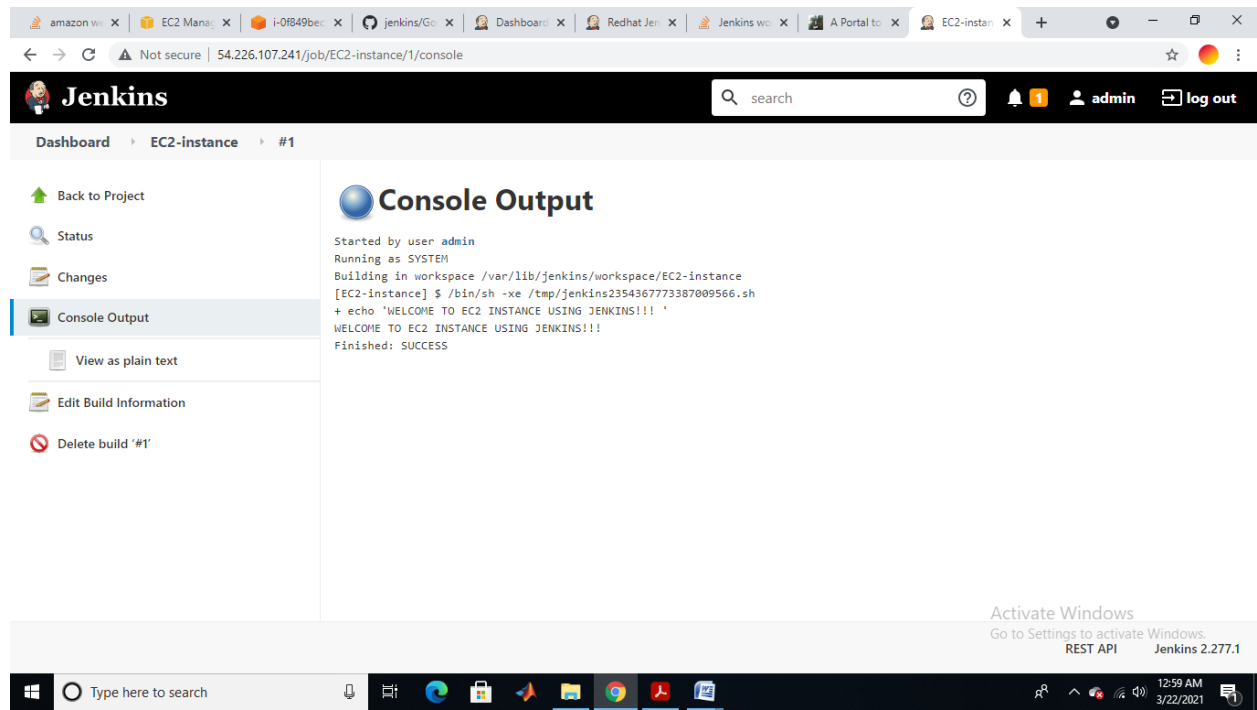
RE-LOGIN



CREATE A FREE STYLE PROJECT AND EXECUTE SHELL AND BUILD PROJECT.



BUILD IS SUCCESSFUL AND IS SHOWN IN CONSOLE OUTPUT.



***HENCE, PROJECT7 IS
IMPLEMENTED
SUCCESSFULLY.***
