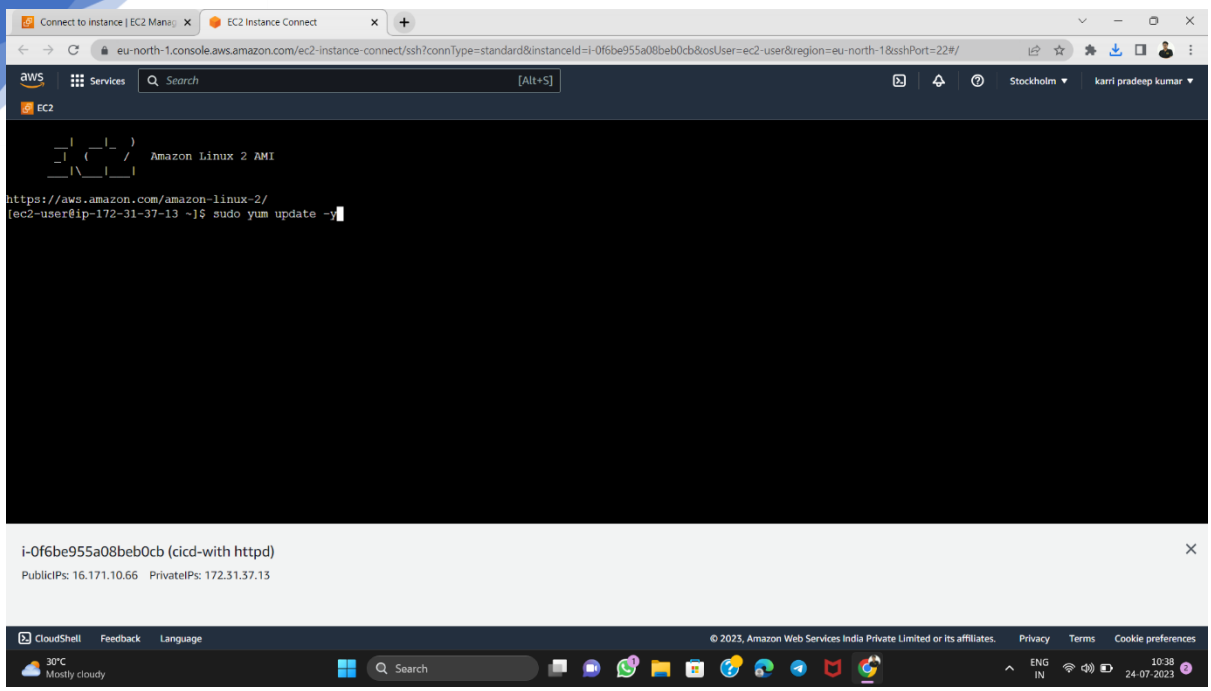
CI-CD THROUGH JENKINS USING HTTPD

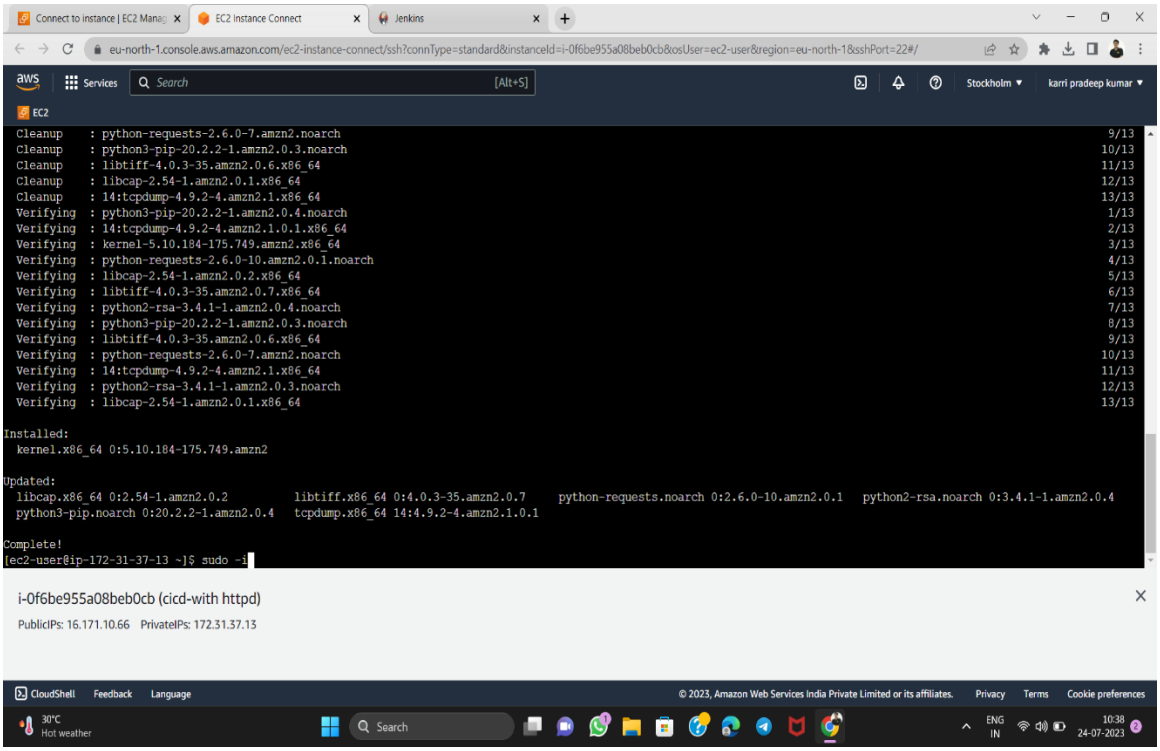
CREATE AN EC2 INSTANCE USING AMAZON LINUX OS BY ALLOWING ALL TRAFFIC AND ANYWHERE IN NETWORK

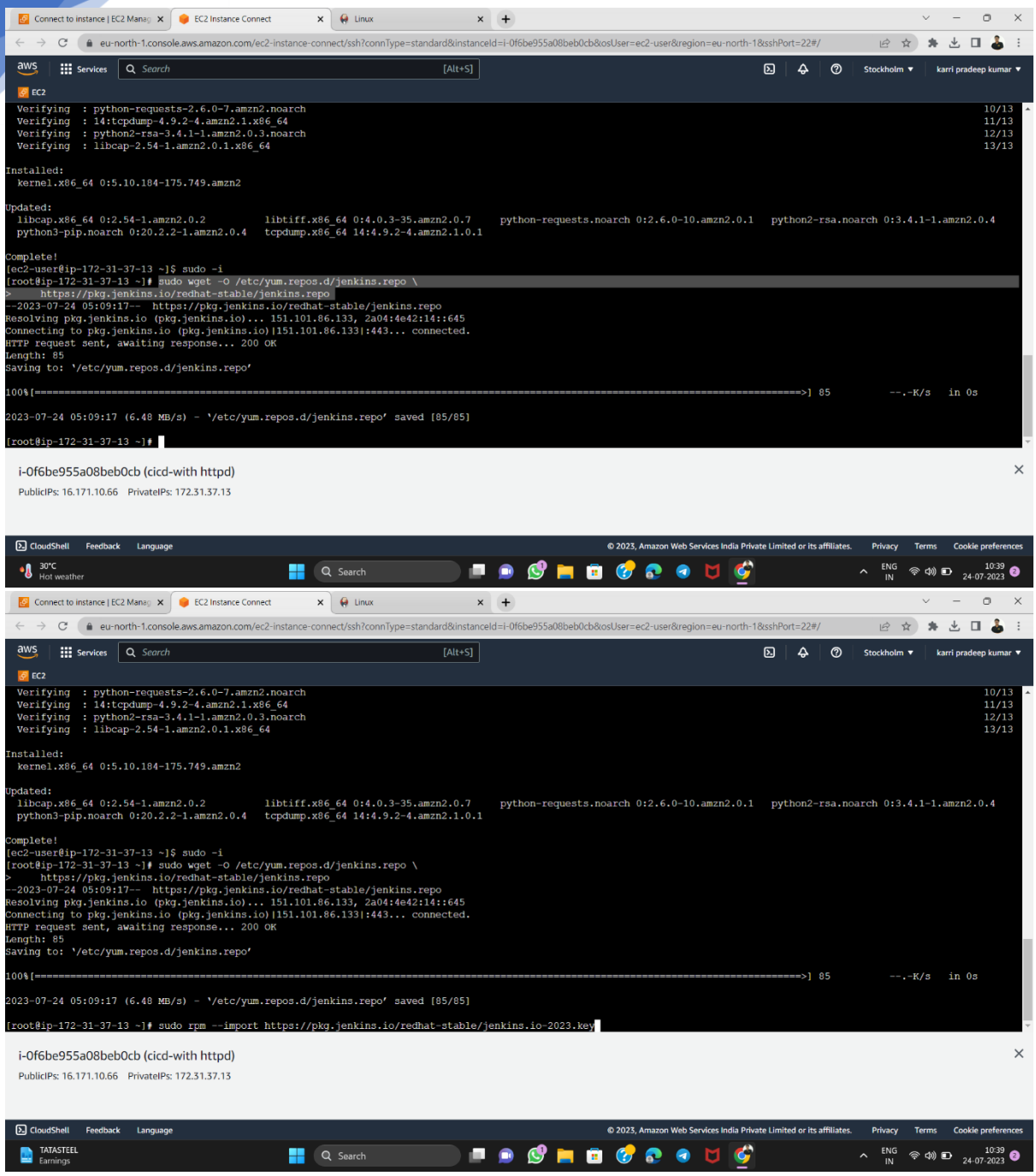
➔ Connect the instance

➔ Excute the following commands.

- sudo yum update
- sudo -i (For switching into root user)
- sudo wget -O /etc/yum.repos.d/jenkins.repo \ https://pkg.jenkins.io/redhat-stable/jenkins.repo
- sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
- amazon-linux-extras install java-openjdk11
- java --version
- yum install jenkins -y
- systemctl enable Jenkins
- systemctl start Jenkins
- systemctl status Jenkins


Connect to instance | EC2 Manag
EC2 Instance Connect
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-37-13 ~]$ sudo yum update -y
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences
30°C
Mostly cloudy
Search
ENG
IN
10:38
24-07-2023


Connect to instance | EC2 Manag
EC2 Instance Connect
Jenkins
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Cleanup : python-requests-2.6.0-7.amzn2.noarch 9/13
Cleanup : python3-pip-20.2.2-1.amzn2.0.3.noarch 10/13
Cleanup : libtiff-4.0.3-35.amzn2.0.6.x86_64 11/13
Cleanup : libcap-2.54-1.amzn2.0.1.x86_64 12/13
Cleanup : 14:tcpdump-4.9.2-4.amzn2.1.x86_64 13/13
Verifying : python3-pip-20.2.2-1.amzn2.0.4.noarch 1/13
Verifying : 14:tcpdump-4.9.2-4.amzn2.1.0.1.x86_64 2/13
Verifying : kernel-5.10.184-175.749.amzn2.x86_64 3/13
Verifying : python-requests-2.6.0-10.amzn2.0.1.noarch 4/13
Verifying : libcap-2.54-1.amzn2.0.2.x86_64 5/13
Verifying : libtiff-4.0.3-35.amzn2.0.7.x86_64 6/13
Verifying : python2-rsa-3.4.1-1.amzn2.0.4.noarch 7/13
Verifying : python3-pip-20.2.2-1.amzn2.0.3.noarch 8/13
Verifying : libtiff-4.0.3-35.amzn2.0.6.x86_64 9/13
Verifying : python-requests-2.6.0-7.amzn2.noarch 10/13
Verifying : 14:tcpdump-4.9.2-4.amzn2.1.x86_64 11/13
Verifying : python2-rsa-3.4.1-1.amzn2.0.3.noarch 12/13
Verifying : libcap-2.54-1.amzn2.0.1.x86_64 13/13
Installed:
kernel.x86_64 0:5.10.184-175.749.amzn2
Updated:
libcap.x86_64 0:2.54-1.amzn2.0.2 libtiff.x86_64 0:4.0.3-35.amzn2.0.7 python-requests.noarch 0:2.6.0-10.amzn2.0.1 python2-rsa.noarch 0:3.4.1-1.amzn2.0.4
python3-pip.noarch 0:20.2.2-1.amzn2.0.4 tcpdump.x86_64 14:4.9.2-4.amzn2.1.0.1
Complete!
[ec2-user@ip-172-31-37-13 ~]$ sudo -i
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences
30°C
Hot weather
Search
ENG
IN
10:38
24-07-2023


Connect to instance | EC2 Manag
EC2 Instance Connect
Linux
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Verifying : python-requests-2.6.0-7.amzn2.noarch 10/13
Verifying : 14:tcpdump-4.9.2-4.amzn2.1.x86_64 11/13
Verifying : python2-rsa-3.4.1-1.amzn2.0.3.noarch 12/13
Verifying : libcap-2.54-1.amzn2.0.1.x86_64 13/13
Installed:
kernel.x86_64 0:5.10.184-175.749.amzn2
Updated:
libcap.x86_64 0:2.54-1.amzn2.0.2 libtiff.x86_64 0:4.0.3-35.amzn2.0.7 python-requests.noarch 0:2.6.0-10.amzn2.0.1 python2-rsa.noarch 0:3.4.1-1.amzn2.0.4
python3-pip.noarch 0:20.2.2-1.amzn2.0.4 tcpdump.x86_64 14:4.9.2-4.amzn2.1.0.1
Complete!
[ec2-user@ip-172-31-37-13 ~]$ sudo -i
[root@ip-172-31-37-13 ~]# sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2023-07-24 05:09:17-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.86.133, 2a04:4e42:14::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.86.133|: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
2023-07-24 05:09:17 (6.48 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
[root@ip-172-31-37-13 ~]#
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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30°C
Hot weather
Search
ENG
IN
10:39
24-07-2023

Connect to instance | EC2 Manag
EC2 Instance Connect
Linux
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Verifying : python-requests-2.6.0-7.amzn2.noarch 10/13
Verifying : 14:tcpdump-4.9.2-4.amzn2.1.x86_64 11/13
Verifying : python2-rsa-3.4.1-1.amzn2.0.3.noarch 12/13
Verifying : libcap-2.54-1.amzn2.0.1.x86_64 13/13
Installed:
kernel.x86_64 0:5.10.184-175.749.amzn2
Updated:
libcap.x86_64 0:2.54-1.amzn2.0.2 libtiff.x86_64 0:4.0.3-35.amzn2.0.7 python-requests.noarch 0:2.6.0-10.amzn2.0.1 python2-rsa.noarch 0:3.4.1-1.amzn2.0.4
python3-pip.noarch 0:20.2.2-1.amzn2.0.4 tcpdump.x86_64 14:4.9.2-4.amzn2.1.0.1
Complete!
[ec2-user@ip-172-31-37-13 ~]$ sudo -i
[root@ip-172-31-37-13 ~]# sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2023-07-24 05:09:17-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.86.133, 2a04:4e42:14::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.86.133|: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
2023-07-24 05:09:17 (6.48 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
[root@ip-172-31-37-13 ~]# sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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TATASTEEL
Earnings
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ENG
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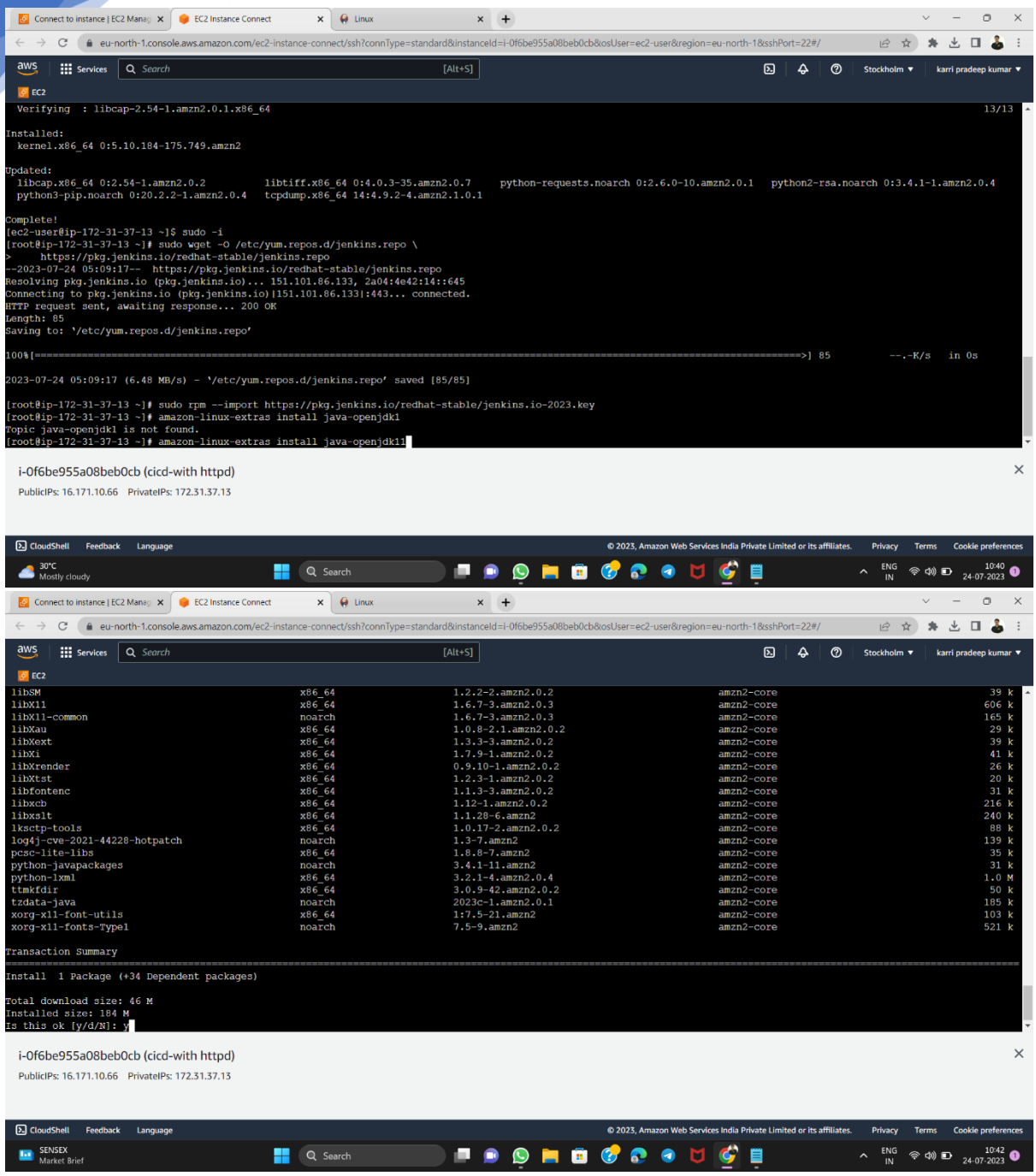
10:39
24-07-2023


Connect to instance | EC2 Manag
EC2 Instance Connect
Linux
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Verifying : libcap-2.54-1.amzn2.0.1.x86_64 13/13
Installed:
kernel.x86_64 0:5.10.184-175.749.amzn2
Updated:
libcap.x86_64 0:2.54-1.amzn2.0.2 libtiff.x86_64 0:4.0.3-35.amzn2.0.7 python-requests.noarch 0:2.6.0-10.amzn2.0.1 python2-rsa.noarch 0:3.4.1-1.amzn2.0.4
python3-pip.noarch 0:20.2.2-1.amzn2.0.4 tcpdump.x86_64 14:4.9.2-4.amzn2.1.0.1
Complete!
[ec2-user@ip-172-31-37-13 ~]$ sudo -i
[root@ip-172-31-37-13 ~]# sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2023-07-24 05:09:17-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.86.133, 2a04:4e42:14::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.86.133|: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
2023-07-24 05:09:17 (6.48 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
[root@ip-172-31-37-13 ~]# sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
[root@ip-172-31-37-13 ~]# amazon-linux-extras install java-openjdk1
Topic java-openjdk1 is not found.
[root@ip-172-31-37-13 ~]# amazon-linux-extras install java-openjdk11
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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Cookie preferences
30°C
Mostly cloudy
Search
ENG
IN
10:40
24-07-2023

Connect to instance | EC2 Manag
EC2 Instance Connect
Linux
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
libSM x86_64 1.2.2-2.amzn2.0.2 amzn2-core 39 k
libX11 x86_64 1.6.7-3.amzn2.0.3 amzn2-core 606 k
libX11-common noarch 1.6.7-3.amzn2.0.3 amzn2-core 165 k
libXau x86_64 1.0.8-2.1.amzn2.0.2 amzn2-core 29 k
libXext x86_64 1.3.3-3.amzn2.0.2 amzn2-core 39 k
libXi x86_64 1.7.9-1.amzn2.0.2 amzn2-core 41 k
libXrender x86_64 0.9.10-1.amzn2.0.2 amzn2-core 26 k
libXtst x86_64 1.2.3-1.amzn2.0.2 amzn2-core 20 k
libfontenc x86_64 1.1.3-3.amzn2.0.2 amzn2-core 31 k
libxcb x86_64 1.12-1.amzn2.0.2 amzn2-core 216 k
libxslt x86_64 1.1.28-6.amzn2 amzn2-core 240 k
lksctp-tools x86_64 1.0.17-2.amzn2.0.2 amzn2-core 88 k
log4j-cve-2021-44228-hotpatch noarch 1.3-7.amzn2 amzn2-core 139 k
pcsc-lite-libs x86_64 1.8.8-7.amzn2 amzn2-core 35 k
python-javapackages noarch 3.4.1-11.amzn2 amzn2-core 31 k
python-lxml x86_64 3.2.1-4.amzn2.0.4 amzn2-core 1.0 M
ttmkfdir x86_64 3.0.9-42.amzn2.0.2 amzn2-core 50 k
tzdata-java noarch 2023c-1.amzn2.0.1 amzn2-core 185 k
xorg-x11-font-utils x86_64 1:7.5-21.amzn2 amzn2-core 103 k
xorg-x11-fonts-Type1 noarch 7.5-9.amzn2 amzn2-core 521 k
Transaction Summary
Install 1 Package (+34 Dependent packages)
Total download size: 46 M
Installed size: 184 M
Is this ok [y/d/N]: y
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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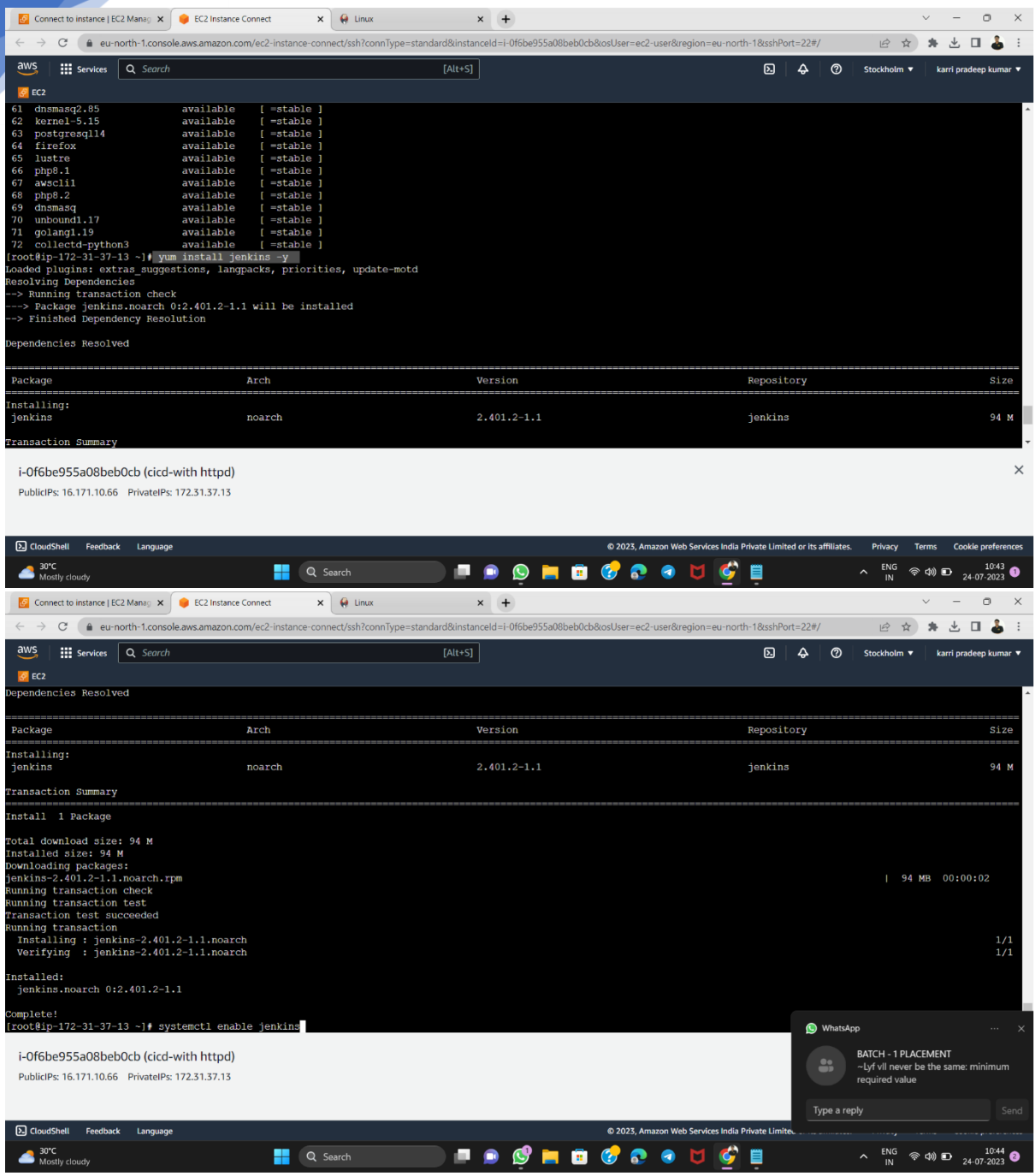
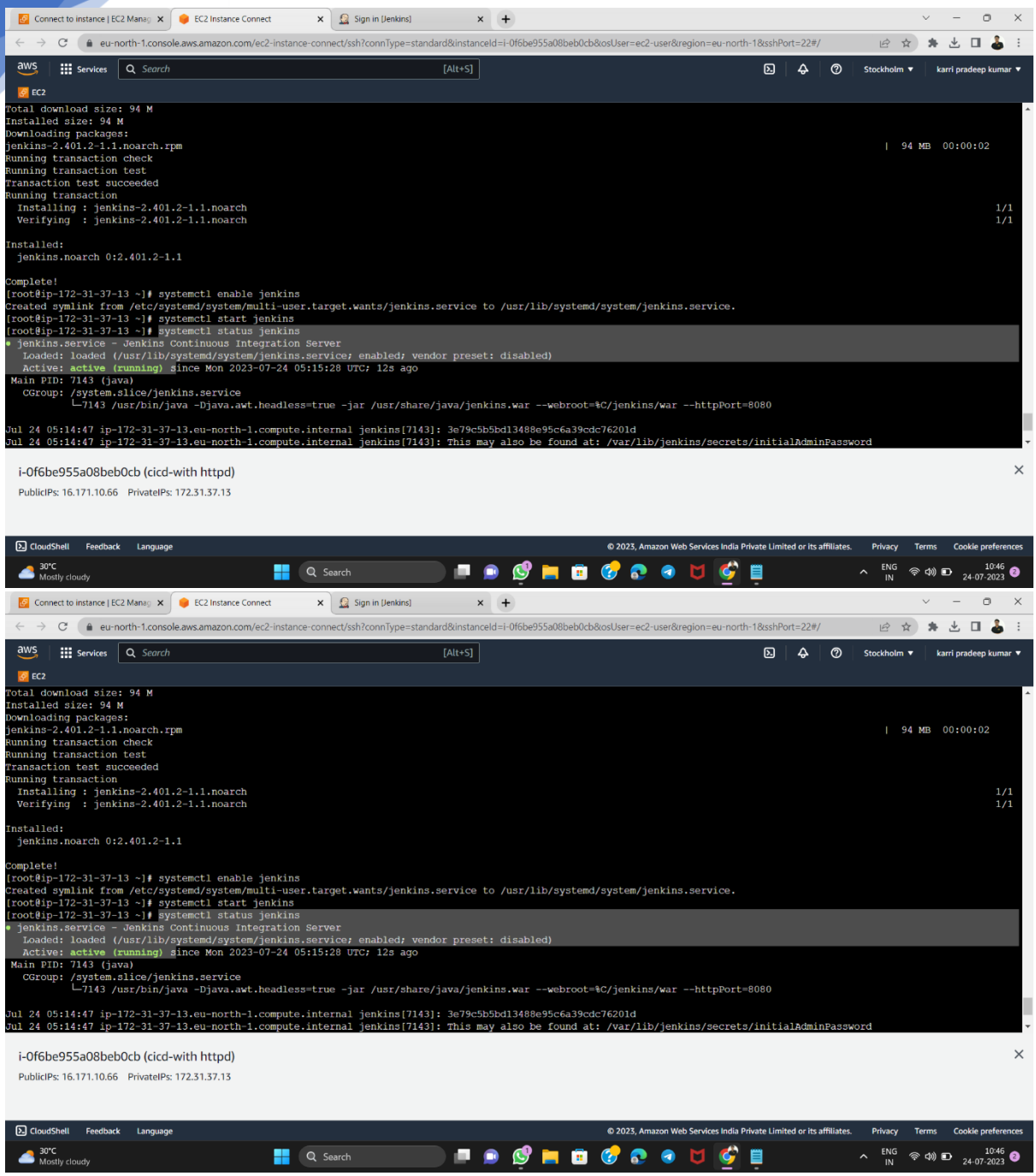
Privacy
Terms
Cookie preferences
SENSEX
Market Brief
Search
ENG
IN
10:42
24-07-2023


61 dnsmasq2.85 available [=stable]
62 kernel-5.15 available [=stable]
63 postgresql14 available [=stable]
64 firefox available [=stable]
65 lustre available [=stable]
66 php8.1 available [=stable]
67 awscli1 available [=stable]
68 php8.2 available [=stable]
69 dnsmasq available [=stable]
70 unbound1.17 available [=stable]
71 golang1.19 available [=stable]
72 collectd-python3 available [=stable]
[root@ip-172-31-37-13 ~]# yum install jenkins -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package jenkins.noarch 0:2.401.2-1.1 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
Package Arch Version Repository Size
Installing:
jenkins noarch 2.401.2-1.1 jenkins 94 M
Transaction Summary
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13

Dependencies Resolved
Package Arch Version Repository Size
Installing:
jenkins noarch 2.401.2-1.1 jenkins 94 M
Transaction Summary
Install 1 Package
Total download size: 94 M
Installed size: 94 M
Downloading packages:
jenkins-2.401.2-1.1.noarch.rpm | 94 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : jenkins-2.401.2-1.1.noarch 1/1
Verifying : jenkins-2.401.2-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.401.2-1.1
Complete!
[root@ip-172-31-37-13 ~]# systemctl enable jenkins
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
WhatsApp
BATCH - 1 PLACEMENT
~Lyf vll never be the same: minimum required value
Type a reply
Send


Connect to instance | EC2 Manag
EC2 Instance Connect
Sign in [Jenkins]
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Total download size: 94 M
Installed size: 94 M
Downloading packages:
jenkins-2.401.2-1.1.noarch.rpm | 94 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : jenkins-2.401.2-1.1.noarch 1/1
Verifying : jenkins-2.401.2-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.401.2-1.1
Complete!
[root@ip-172-31-37-13 ~]# systemctl enable jenkins
Created symlink from /etc/systemd/system/multi-user.target.wants/jenkins.service to /usr/lib/systemd/system/jenkins.service.
[root@ip-172-31-37-13 ~]# systemctl start jenkins
[root@ip-172-31-37-13 ~]# systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
Active: active (running) since Mon 2023-07-24 05:15:28 UTC; 12s ago
Main PID: 7143 (java)
CGroup: /system.slice/jenkins.service
└7143 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=%C/jenkins/war --httpPort=8080
Jul 24 05:14:47 ip-172-31-37-13.eu-north-1.compute.internal jenkins[7143]: 3e79c5b5bd13488e95c6a39cdc76201d
Jul 24 05:14:47 ip-172-31-37-13.eu-north-1.compute.internal jenkins[7143]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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Privacy
Terms
Cookie preferences
30°C
Mostly cloudy
Search
ENG
IN
10:46
24-07-2023

Connect to instance | EC2 Manag
EC2 Instance Connect
Sign in [Jenkins]
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f6be955a08beb0cb&osUser=ec2-user&region=eu-north-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Stockholm
karri pradeep kumar
EC2
Total download size: 94 M
Installed size: 94 M
Downloading packages:
jenkins-2.401.2-1.1.noarch.rpm | 94 MB 00:00:02
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : jenkins-2.401.2-1.1.noarch 1/1
Verifying : jenkins-2.401.2-1.1.noarch 1/1
Installed:
jenkins.noarch 0:2.401.2-1.1
Complete!
[root@ip-172-31-37-13 ~]# systemctl enable jenkins
Created symlink from /etc/systemd/system/multi-user.target.wants/jenkins.service to /usr/lib/systemd/system/jenkins.service.
[root@ip-172-31-37-13 ~]# systemctl start jenkins
[root@ip-172-31-37-13 ~]# systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
Active: active (running) since Mon 2023-07-24 05:15:28 UTC; 12s ago
Main PID: 7143 (java)
CGroup: /system.slice/jenkins.service
└7143 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=%C/jenkins/war --httpPort=8080
Jul 24 05:14:47 ip-172-31-37-13.eu-north-1.compute.internal jenkins[7143]: 3e79c5b5bd13488e95c6a39cdc76201d
Jul 24 05:14:47 ip-172-31-37-13.eu-north-1.compute.internal jenkins[7143]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
i-0f6be955a08beb0cb (cicd-with httpd)
PublicIPs: 16.171.10.66 PrivateIPs: 172.31.37.13
CloudShell
Feedback
Language
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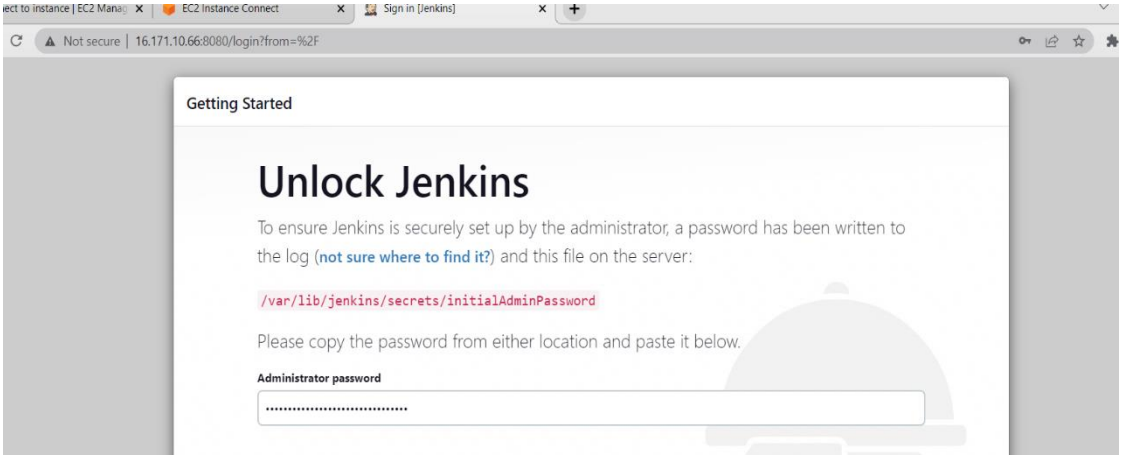
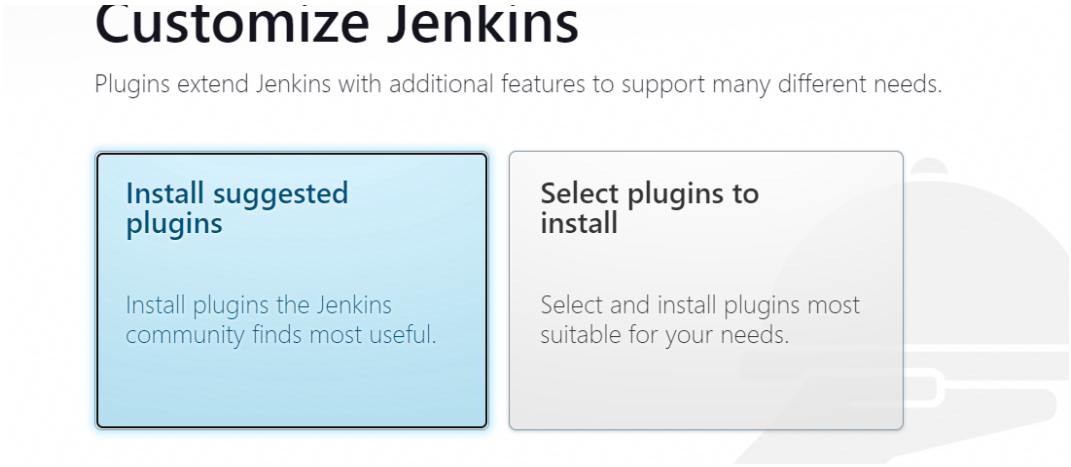
Terms
Cookie preferences
30°C
Mostly cloudy
Search
ENG
IN
10:46
24-07-2023

➔ TO CONNECT THE JENKINS USE PUBLIC IP:8080

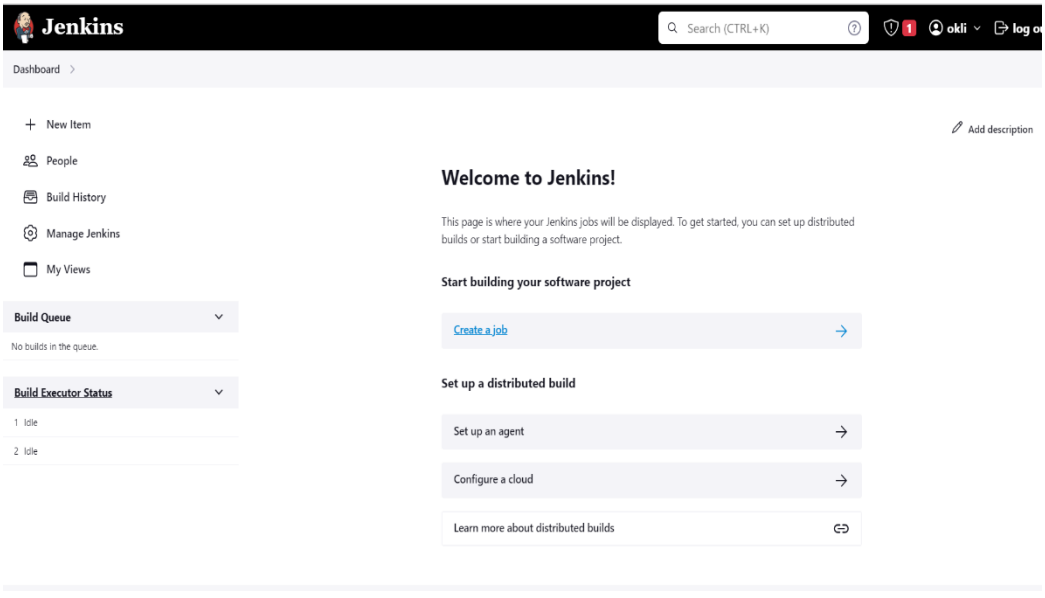
- For password
- cat /var/lib/jenkins/secrets/initialAdminPassword



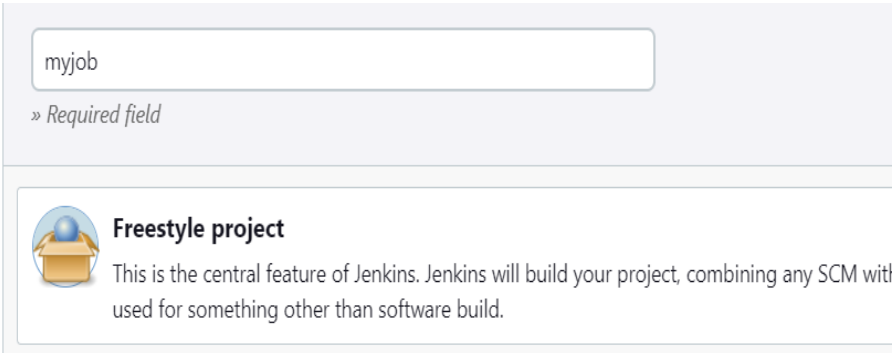
➔ INSTALL SUGGESTED PLUGINS



➔ CREATE A JOB



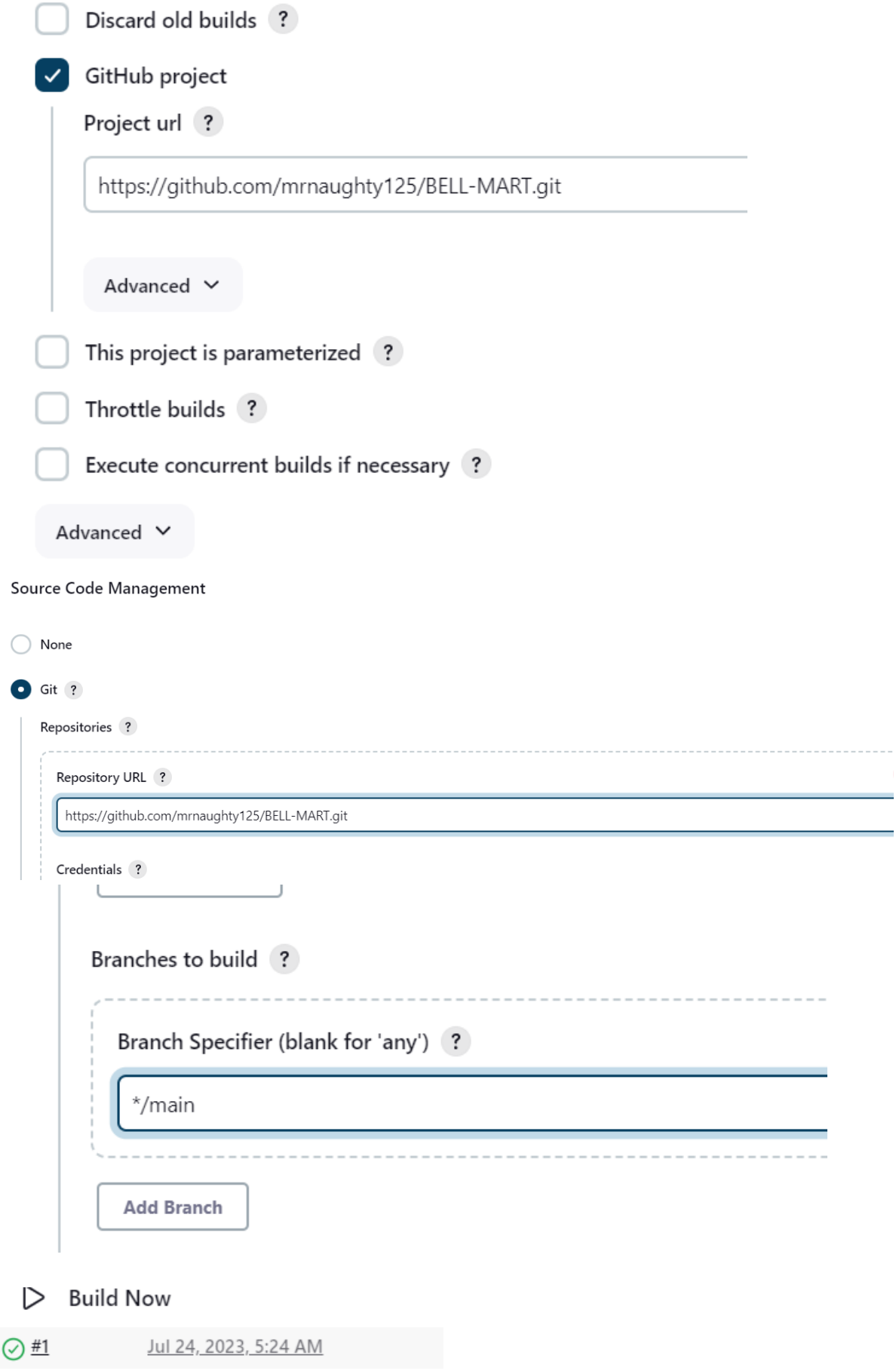
➔ CREATE USING FREE STYLE PROJECT



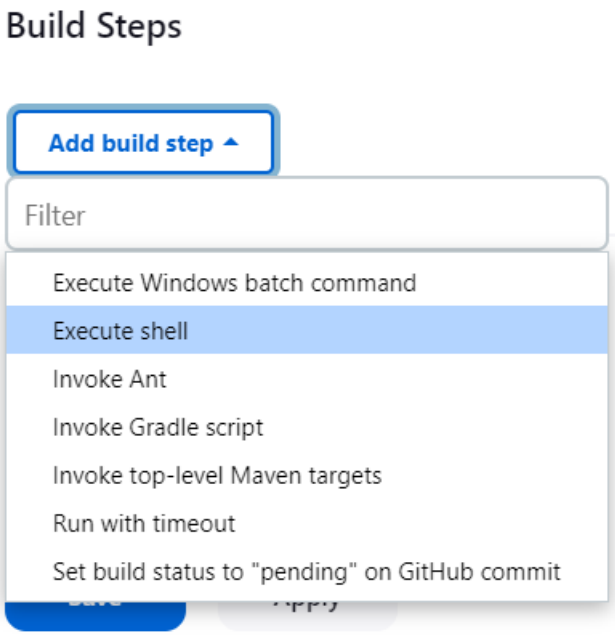
GO BACK TO INSTANCE AGAIN AND INSTALL GIT AND HTTPD

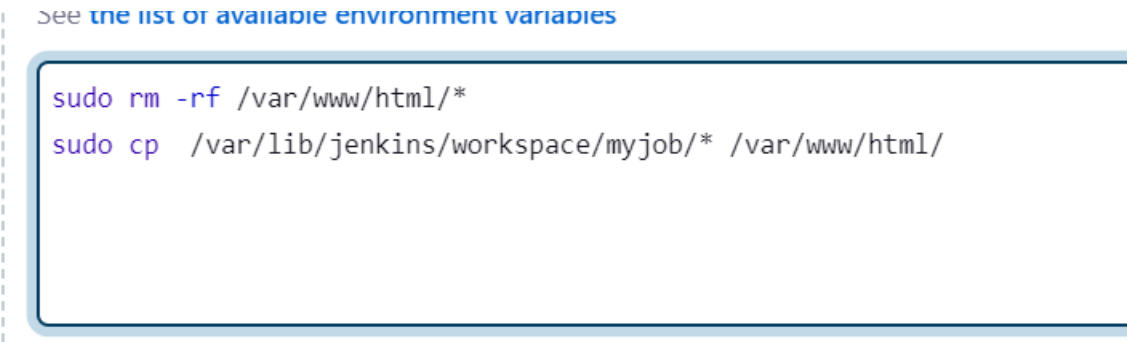
- yum install git -y
- yum install httpd -y
- systemctl enable httpd
- systemctl start httpd
- systemctl status httpd

*** make sure status is running


Discard old builds
GitHub project
Project url
https://github.com/mrnaughty125/BELL-MART.git
Advanced
This project is parameterized
Throttle builds
Execute concurrent builds if necessary
Advanced
Source Code Management
None
Git
Repositories
Repository URL
https://github.com/mrnaughty125/BELL-MART.git
Credentials
Branches to build
Branch Specifier (blank for 'any')
*/main
Add Branch
Build Now
#1
Jul 24, 2023, 5:24 AM

AGAIN TO CONFIGURE

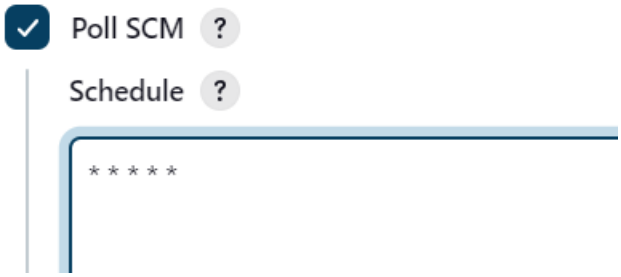




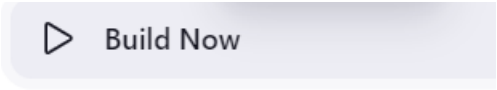
MAKE A BULID AGAIN

For auto bulid in the change in github using POLL-SCM

Again go to configure and make some additions

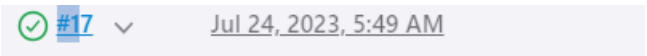


Build again once and see any errors



Before change in github the website looks :

Lets make some change in git hub code the next build will perform automatically hence the CD performed here for CI.



The auto build is done after one minute because the poll scm is * * * * * it means for change of the code in github after one minute it reflects to the website.

The change in website after auto bulid:

i prefer bellmart its pure jaggery

i also prefer bellmart its pure jaggery