

DevOps Certification Training

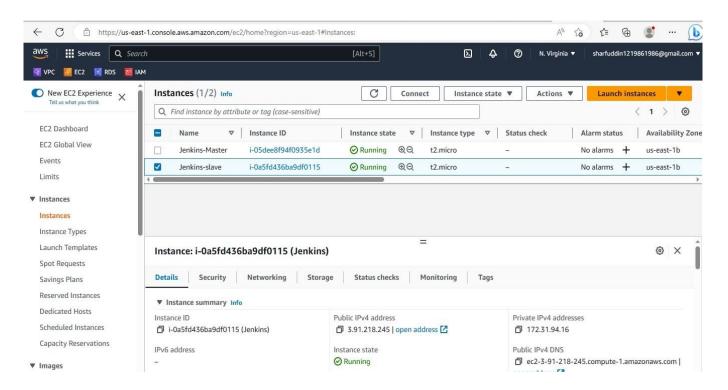


Module-8: Jenkins Assignment - 1

You have been asked to:

- Trigger a pipeline using Git when push on Develop branch
- Pipeline should pull git content to a folder

1)Create a pipeline using Git on develop branch.



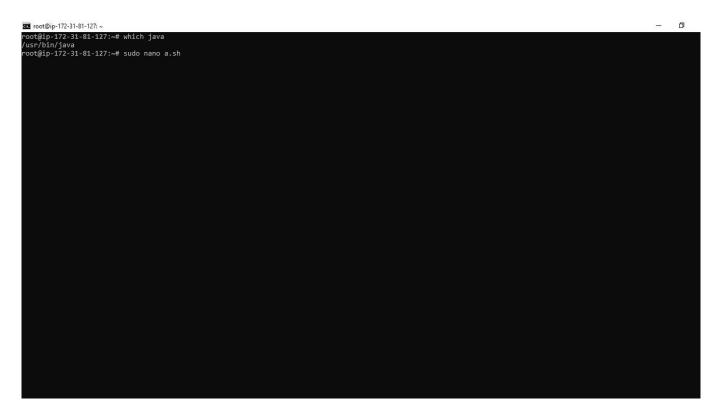


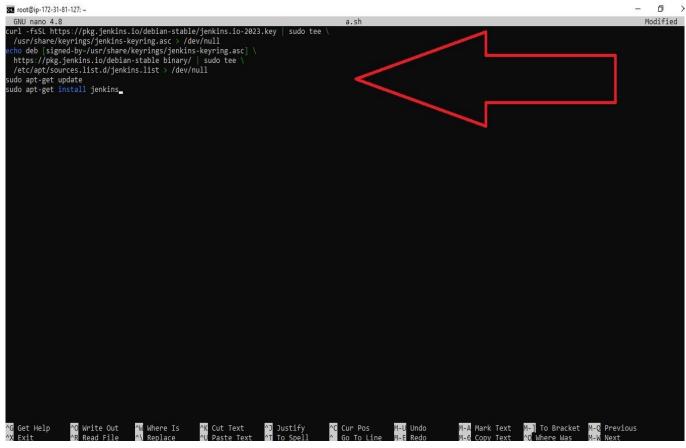


```
root@ip-172-31-81-127; ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
  root@ip-172-31-81-127:∼# sudo
Reading package lists... Done
                                                                                     sudo apt install openjdk-11-jdk
  Building dependency tree
  Reading state information... Done
    he following additional packages will be installed:
     at-spi2-core ca-certificates-java fontconfig-config fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgif7 libgl1 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvm12 libpciaccess0 libpcsclite1 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm6 libvulkan1
       libwayland-client0 libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1 libxdmcp-dev libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxt56 libxv1 libxxf86dga1 libxxf86ym1 mesa-vulkan-drivers openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless
       x11-common x11-utils x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev
     uggested packages:
      default-jre cups-common libice-doc liblcms2-utils pcscd lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo openjdk-11-source visualym libnss-mdns
       fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic mesa-utils
    Tonts-sparont-gother rouse-paront-matcho rouse-may-marcher | Tonts-may-leaner rouse-land rouse-land
        libwayland-cliento libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-shape0 libxcb-shm0
        libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1 libxdmcp-dev libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1
 libxshmfence1 libxt-dev libxt6 libxt56 libxv1 libxxf86dga1 libxxf86f0ym1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless x11-common x11-utils x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev 0 upgraded, 89 newly installed, 0 to remove and 0 not upgraded.

Need to get 157 MB of archives.
  After this operation, 810 MB of additional disk space will be used.
  Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libatspi2.0-0 amd64 2.36.0-2 [64.2 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 x11-common all 1:7.7.419ubuntu14 [22.3 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 x11-common all 1:7.7.419ubuntu14 [22.3 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 x11-common all 1:7.7.419ubuntu14 [22.3 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 at-spi2-core amd64 2:1.2.3-1 [12.8 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 java-common all 0.72 [6816 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libavahi-common-data amd64 0.7-4ubuntu7.1 [21.4 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libavahi-common3 amd64 0.7-4ubuntu7.1 [21.7 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libavahi-client3 amd64 0.7-4ubuntu7.1 [25.5 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libavahi-client3 amd64 0.7-4ubuntu7.1 [25.5 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libcups2 amd64 2.3.1-9ubuntu12 [233 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 liblcms2-2 amd64 2.9-4 [140 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64 2.0.3-0ubuntu1.20.04.3 [118 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libjpeg8 amd64 8c-2ubuntu8 [2194 B]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 fonts-dejavu-core all 2.37-1 [1041 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 fontconfig-config all 2.13.1-2ubuntu3 [28.8 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libfontconfig1 amd64 2.13.1-2ubuntu3 [114 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libgraphite2-3 amd64 1.3.13-11build1 [73.5 kB]
```

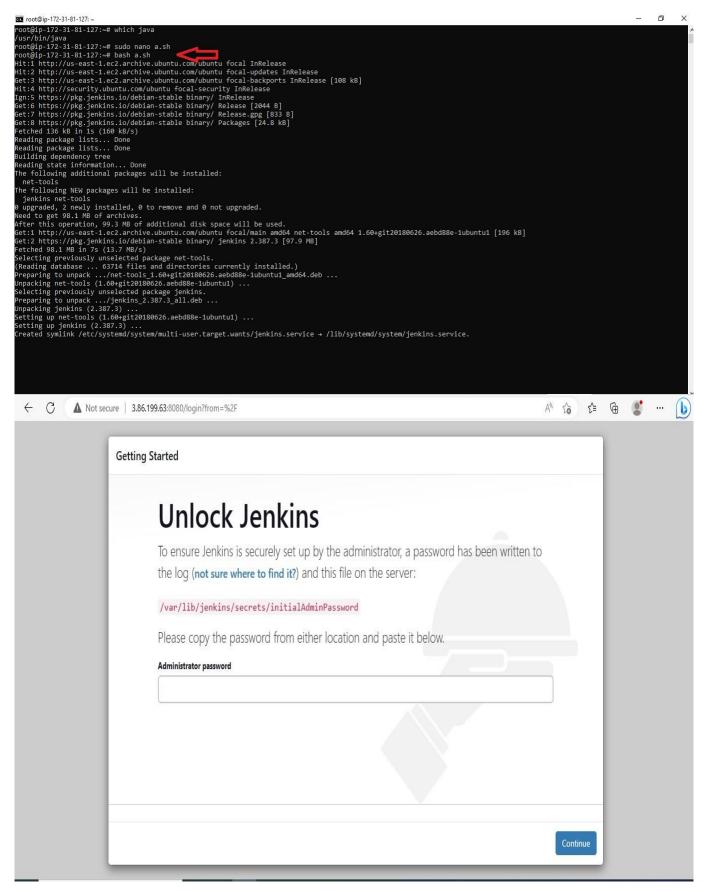














```
root@ip-172-31-81-127: /var/lib/jenkins/secrets
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.

Need to get 98.1 MB of archives.

After this operation, 99.3 MB of additional disk space will be used.

Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]

Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.387.3 [97.9 MB]

Fetched 98.1 MB in 7s (13.7 MB/s)

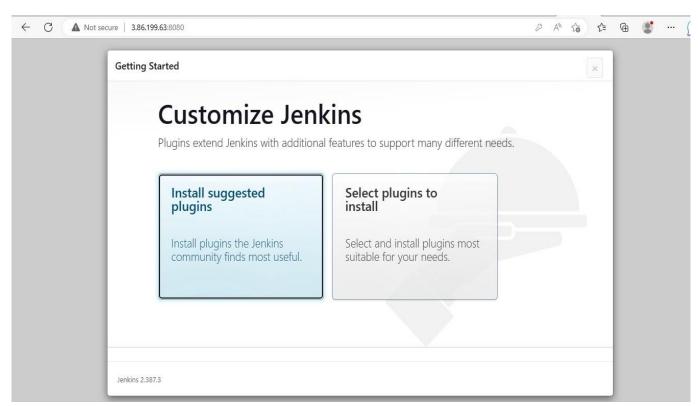
Selecting previously unselected package net-tools.
Reading database ... 63714 files and directories currently installed.)

Preparing to unpack .../net-tools 1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...

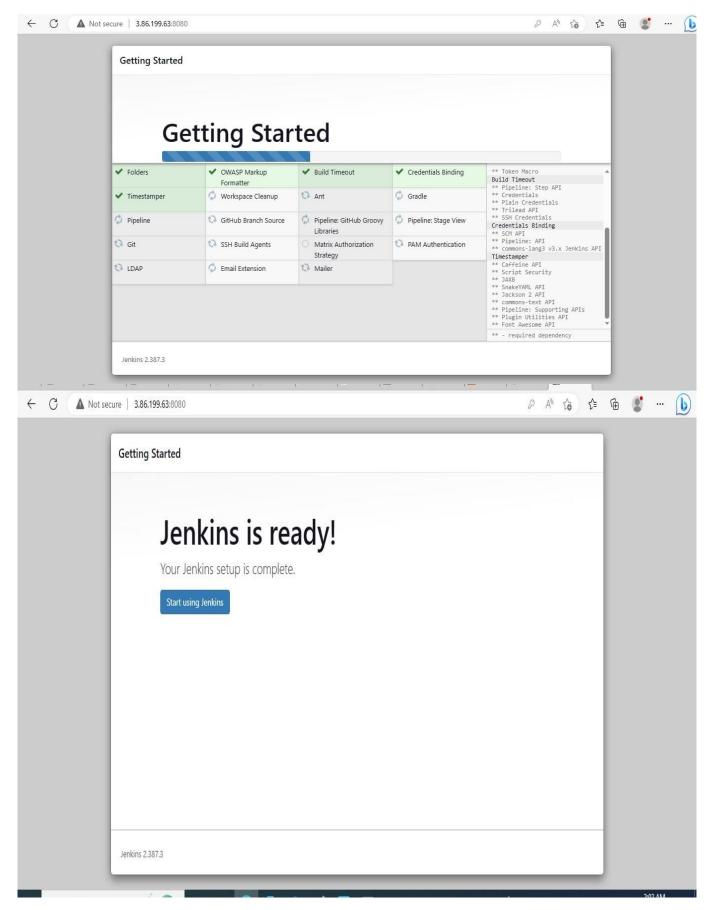
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...

Selecting previously unselected package jenkins.

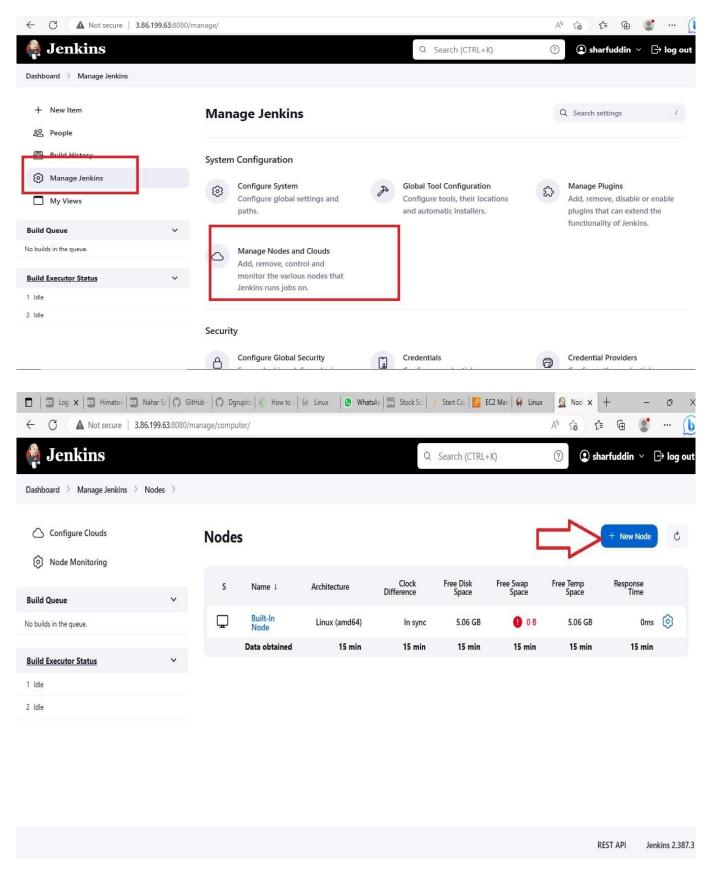
Preparing to unpack .../jenkins_2.387.3_all.deb ...
Toparing to unjack .../plenkins_c.36/.3_aii.deb ...
Unpacking jenkins (2.387.3) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up jenkins (2.387.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.21) ...
root@ip-172-31-81-127:~# maven --version
 Command 'maven' not found, did you mean:
   command 'aven' from deb survex-aven (1.2.42-1build2)
 rv: apt install <deb name>
  oot@ip-172-31-81-127:~# cd /var/lib/jenkins/secrets
 oot@ip-172-31-81-127:/var/lib/jenkins/secrets# ll
otal 20
 50ae7723e06428eab34a5fd9eabf6c5
```





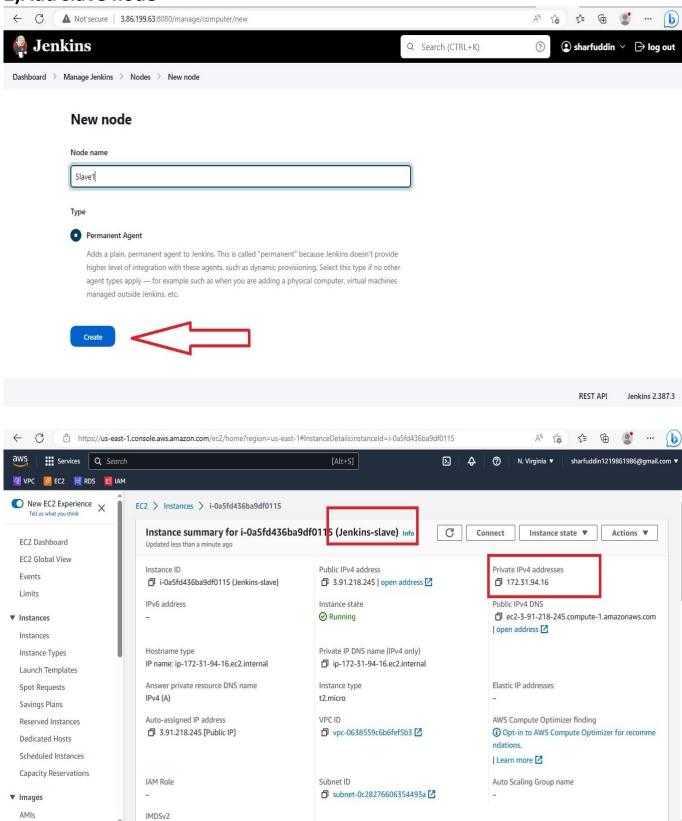




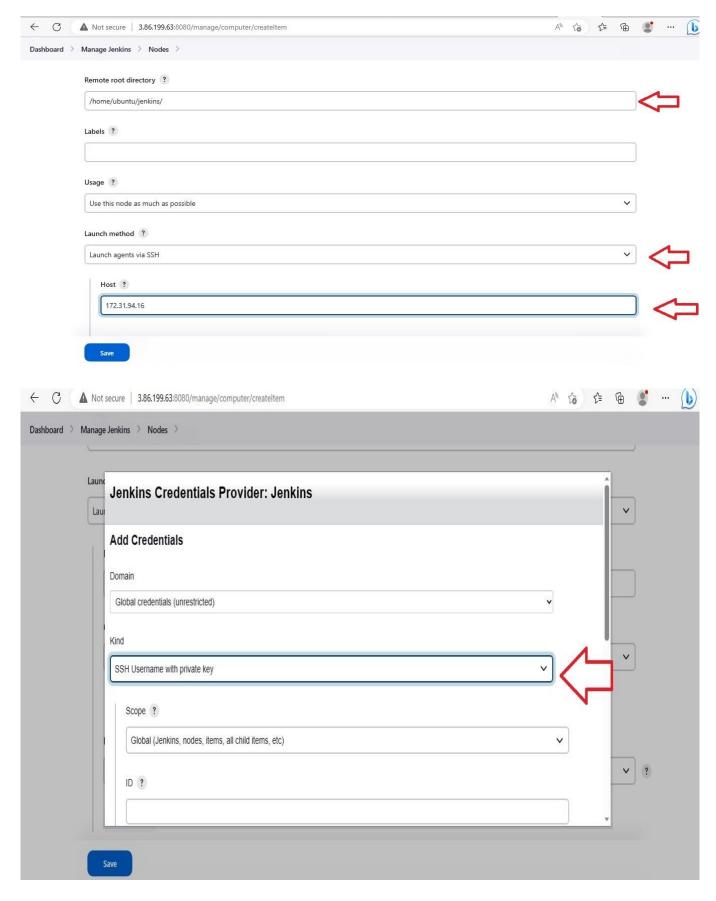




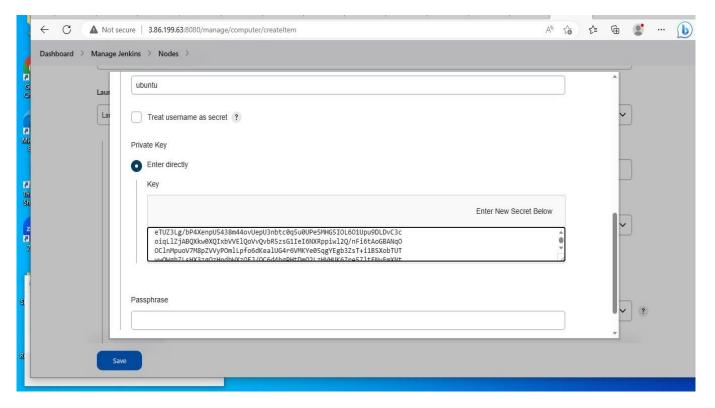
2)Add slave node

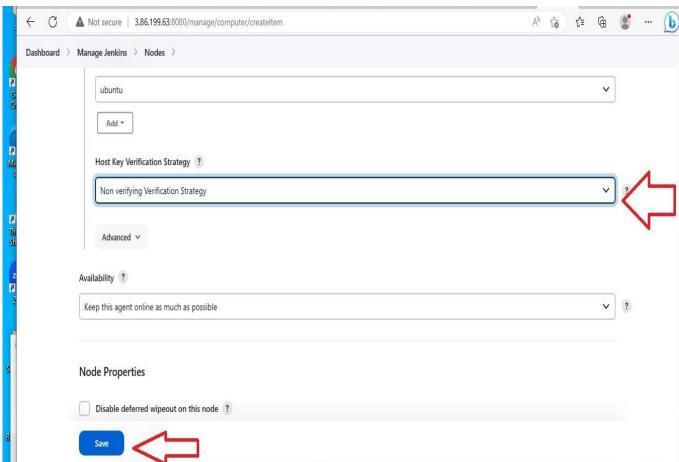




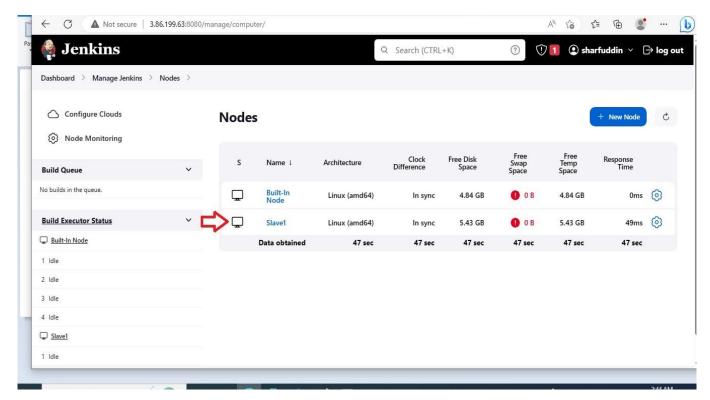


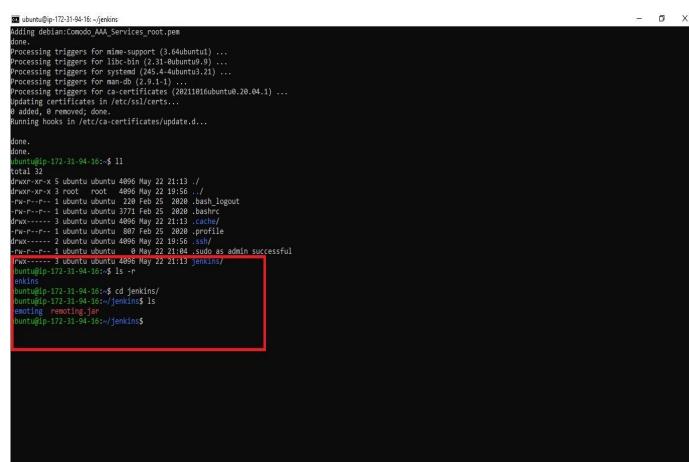










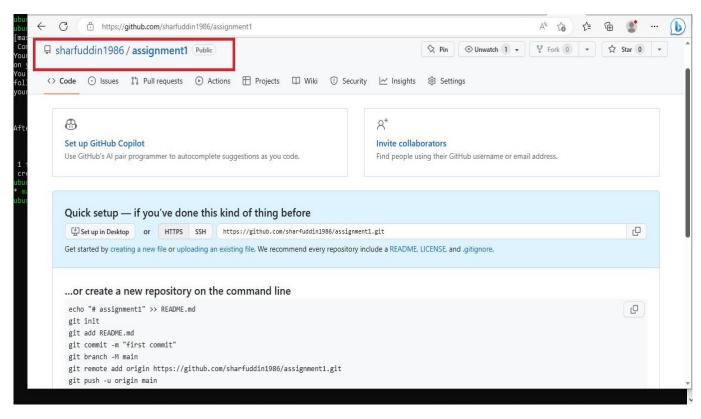




```
-
                     ubuntu@ip-172-31-81-127; ~/git
                                                                                                                                                          X
     aws
Pir
               Si
                    Expanded Security Maintenance for Applications is not enabled.
              EC: 0 updates can be applied immediately.
     G VPC
    \equiv
                     Enable ESM Apps to receive additional future security updates.
                    See https://ubuntu.com/esm or run: sudo pro status
                 ECNew release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
                 Instast login: Mon May 22 21:21:09 2023 from 170.133.122.239
                     ıbuntu@ip-172-31-81-127:~$ ls -al
                    total 32
                    drwxr-xr-x 4 ubuntu ubuntu 4096 May 22 21:21
                    drwxr-xr-x 3 root root 4096 May 22 19:56 .
-rw------ 1 ubuntu ubuntu 8 May 22 21:21 .bash_history
-rw-r--r-- 1 ubuntu ubuntu 220 Feb 25 2020 .bash_logout
                    -rw-r--r- 1 ubuntu ubuntu 3771 Feb 25 2020 .bashrc
drwx----- 2 ubuntu ubuntu 4096 May 22 19:59 .cache
                      rw-r--r-- 1 ubuntu ubuntu 807 Feb 25 2020 .profile
                      rwx----- 2 ubuntu ubuntu 4096 May 22 19:56 .s
                      rw-r--r-- 1 ubuntu ubuntu - o may 22 20:01 .sudo_as_admin_scccessful
buntu@ip-172-31-81-127:~$ mkdir git
                      buntu@ip-172-31-81-127:~$ cd git
                      ountu@ip-172-31-81-127:~/git$ git init
                      nitialized empty Git repository in /home/ubuntu/git/.git/
                      buntu@ip-172-31-81-127:~/git$
```







```
### dbuntuBjs-72-31-81-22-vggif$ touch main.c
### dbuntuBjs-72-31-81-22-vggif$ git commit.-m "master branch "
### master (not-commit) ie27-23 master branch
### master (not-commit)
### master (no
```



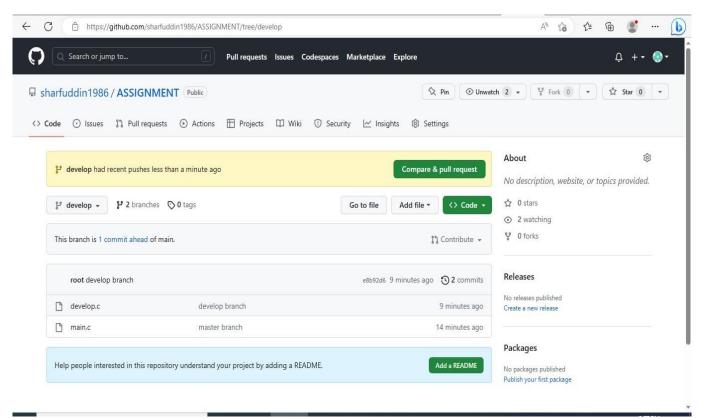
```
ubuntu@ip-172-31-81-127: ~/git
                                                                                                                                                                                                                                                                                                                    @ip-172-31-81-127:~/git$ git branch
  ubuntu@ip-172-31-81-127:~/git$ git checkout devlop witched to branch 'devlop'
ubuntu@ip-172-31-81-127:~/git$ git checkout devlop
Already on 'devlop'
 ubuntu@ip-172-31-81-127:~/git$ pwd
'home/ubuntu/git
   ountu@ip-172-31-81-127:~/git$ git branch
   master
          :u@ip-172-31-81-127:~/git$ ls
 main.c
   buntu@ip-172-31-81-127:~/git$ touch devlop.c
ubuntu@ip-172-31-81-127:~/git$ touch devlop.c
ubuntu@ip-172-31-81-127:~/git$ git add devlop.c
ubuntu@ip-172-31-81-127:~/git$ git commit -m " devlop file "
[devlop 77f5e1c] devlop file
Committer: Ubuntu <ubuntu@ip-172-31-81-127.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
       git config --global --edit
After doing this, you may fix the identity used for this commit with:
        git commit --amend --reset-author
  1 file changed, 0 insertions(+), 0 deletions(-)
I file thanged, & Insertions(+), & deletions(-)
create mode 100644 devlop.c
ubuntu@ip-172-31-81-127:~/git$ git push origin master
Username for 'https://github.com':
sharfuddin1986@github.com':
remote: Support for password authentication was removed on August 13, 2021.
 remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recomm
 ended modes of authentication.
 fatal: Authentication failed for 'https://github.com/sharfuddin1986/assignment1.git/'
Tacal. Adulted on https://githsuburtu@ip-172-31-81-127:~/git$ ubuntu@ip-172-31-81-127:~/git$ git push origin master Username for 'https://github.com': sharfuddin1986 Password for 'https://sharfuddin1986@github.com': _
```

```
Tatal: Authoritection falled for 'https://github.com/sharfuddin1986/assignmentl.git/'
ubuntugig-172-31-8it-172-2/gits git push origin master
Ubername for https://sharfuddin1986github.com':
Enumerating objects: 3, done.
Counting objects: 1, done.
Counting objects: 1, done.
Counting objects: 180% (3/3), 226 bytes | 118-08 ki8/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/sharfuddin1986/assignmentl.git
* [new branch] master -> master

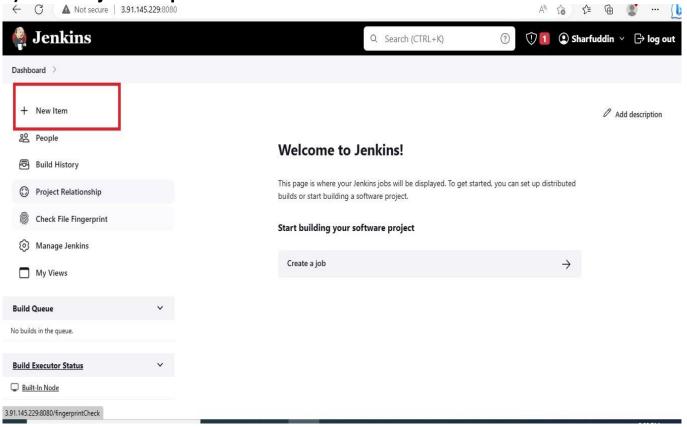
ubuntugip-172-31-81-127:~/git$
```

AWS Solutions Architect Training Submitted By: Md Sharfuddin Email id-sharfuddinmd@gmail.com

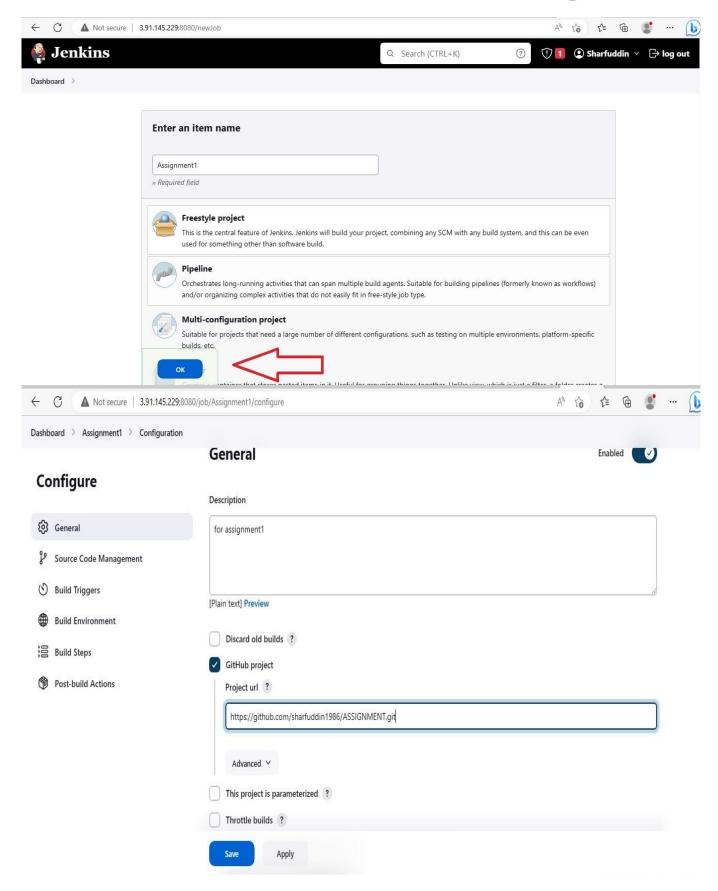




3) Create a job and pull the code from Github account.

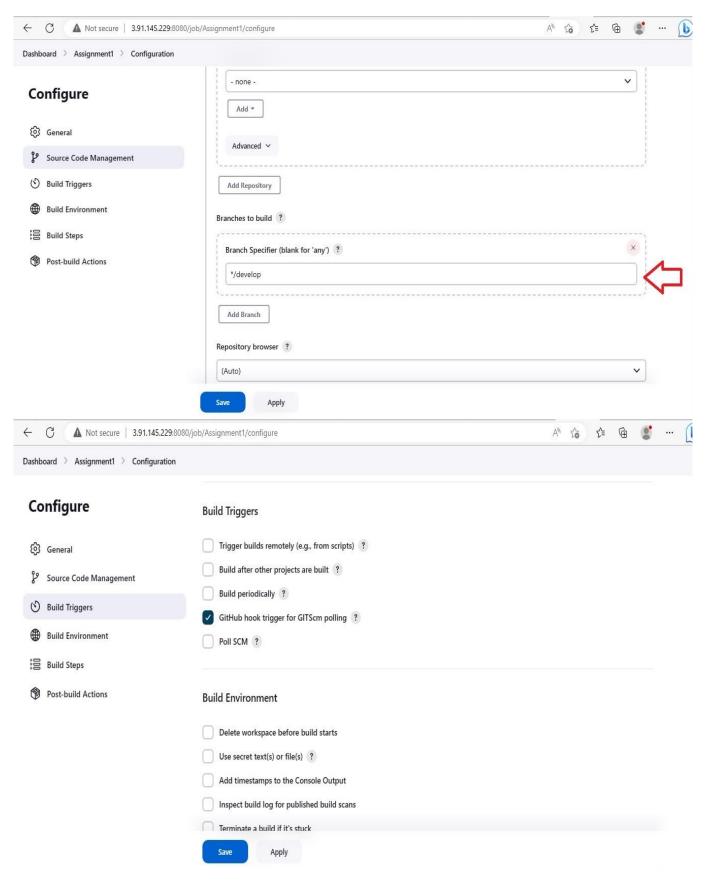




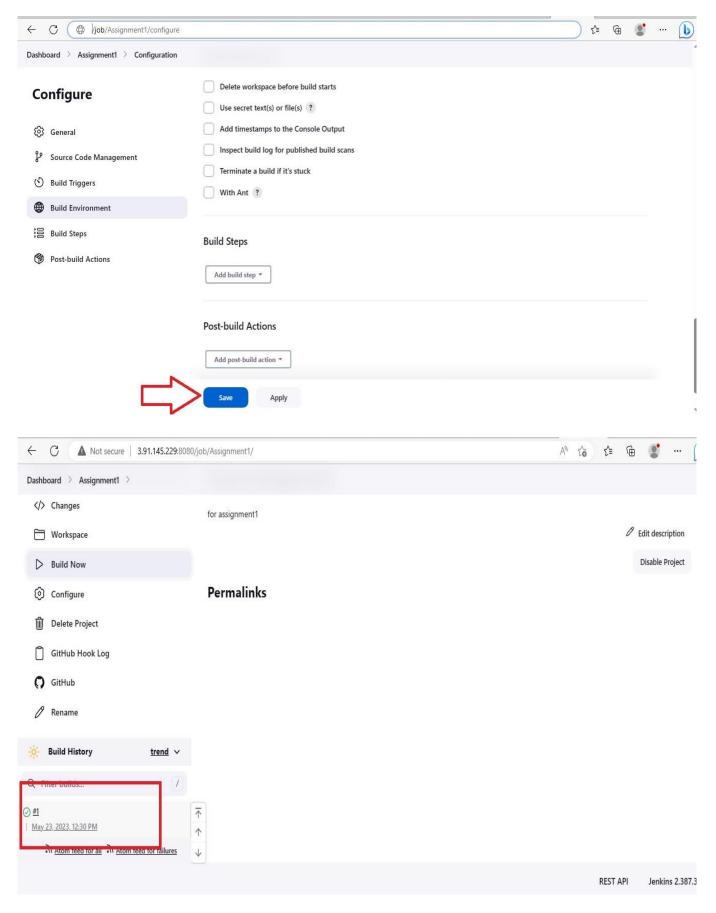




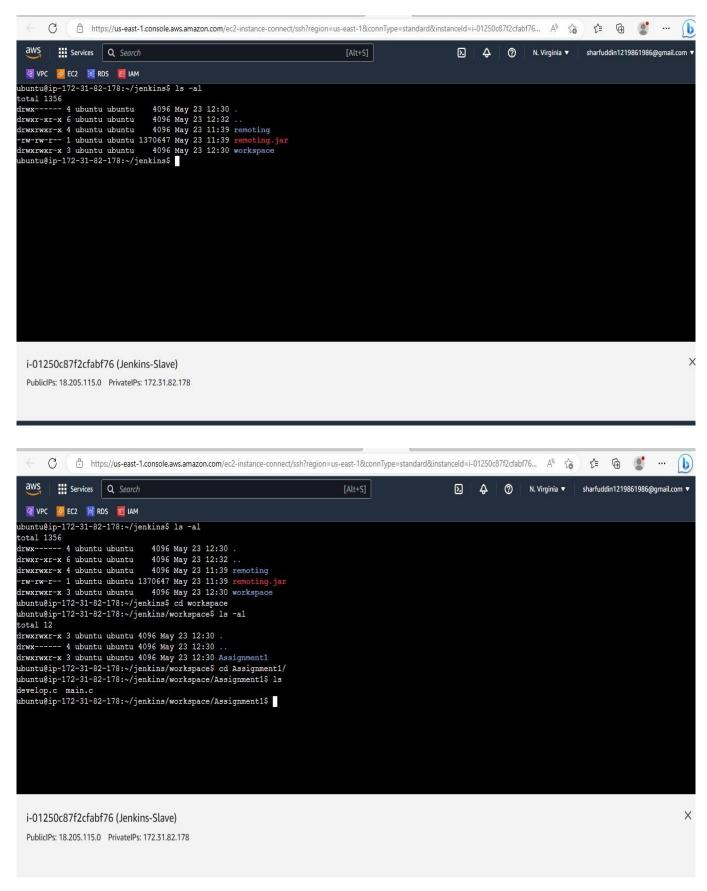






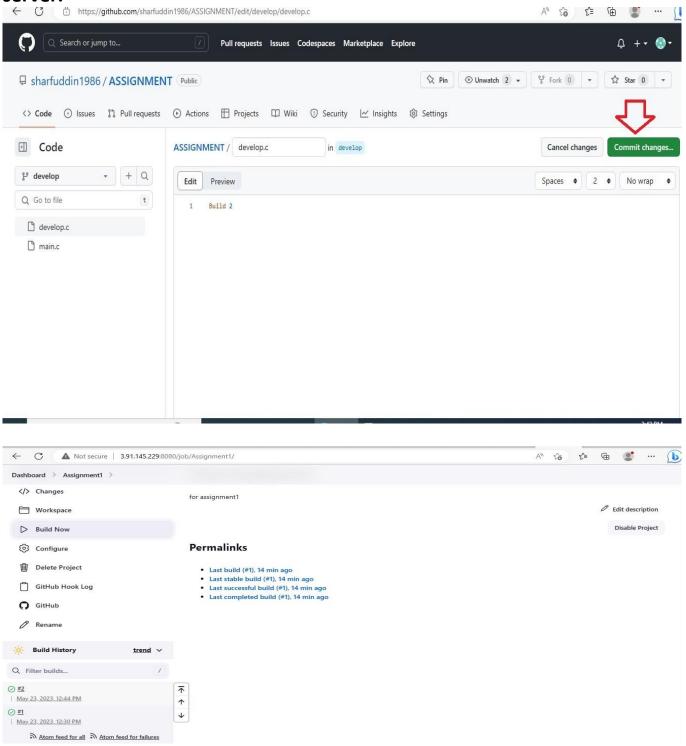








4)Update the code in central repo after job is build automatically in Jenkins server.



All the steps completed and screenshot also attached, still if any thing requires, please email me or call me on my registered number and please share the obtained marks on my email.