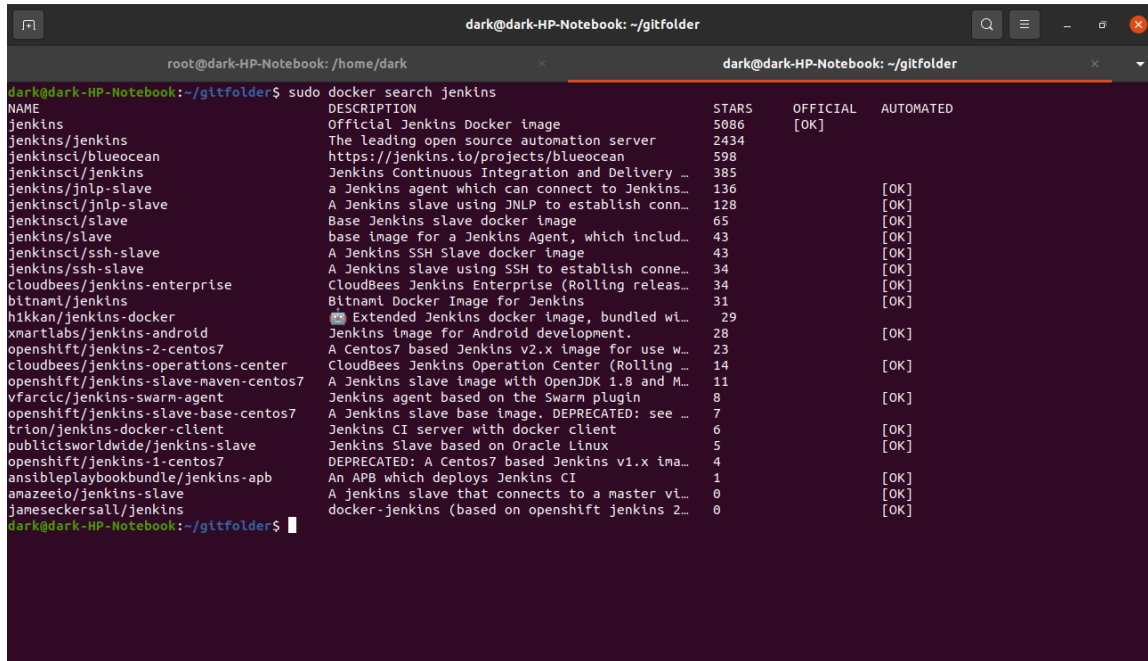


## DEVOPS ASSIGNMENT OF EXTENSION TECHNOLOGY

1. first i have to install docker in my sysytem by using command

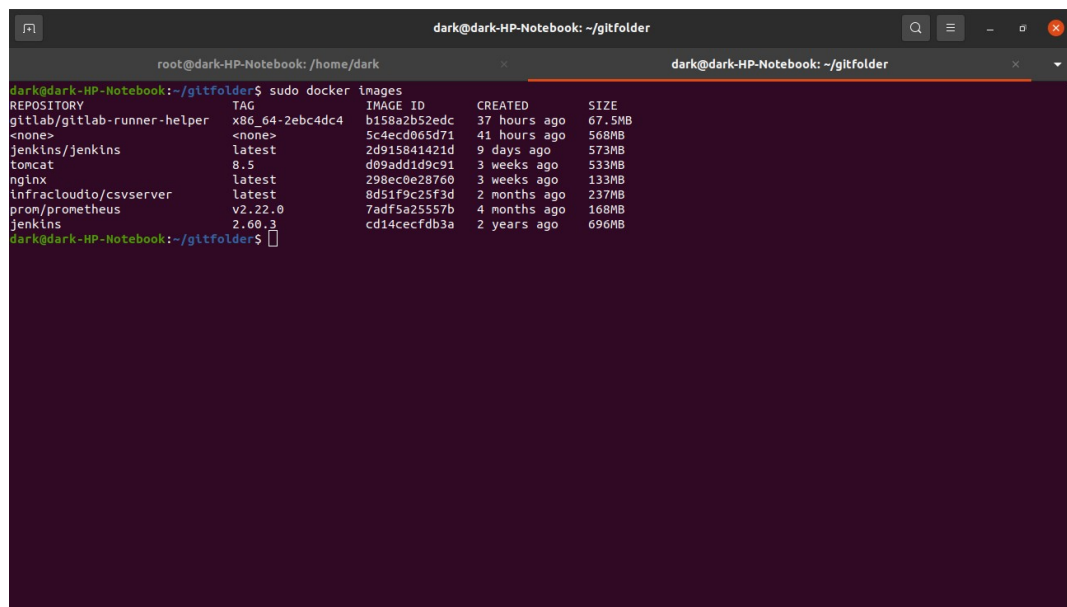
- sudo apt install docker -y
- service docker status
- service docker start



```
dark@dark-HP-Notebook: ~/gitfolder
root@dark-HP-Notebook: /home/dark
dark@dark-HP-Notebook:~/gitfolder$ sudo docker search jenkins
NAME                                DESCRIPTION                                STARS     OFFICIAL    AUTOMATED
jenkins                            Official Jenkins Docker image             5086      [OK]
jenkins/jenkins                    The leading open source automation server  2434
jenkinsci/blueocean                https://jenkins.io/projects/blueocean     598
jenkinsci/jenkins                  Jenkins Continuous Integration and Delivery 385
jenkins/jnlp-slave                 a Jenkins agent which can connect to Jenkins 136      [OK]
jenkinsci/jnlp-slave               A Jenkins slave using JNLP to establish conn 128      [OK]
jenkinsci/slave                    Base Jenkins slave docker image            65        [OK]
jenkins/slave                      base image for a Jenkins Agent, which includ 43        [OK]
jenkinsci/ssh-slave                A Jenkins SSH Slave docker image           43        [OK]
jenkins/ssh-slave                  A Jenkins slave using SSH to establish conne 34        [OK]
cloudbees/jenkins-enterprise       CloudBees Jenkins Enterprise (Rolling releas 34        [OK]
bitnami/jenkins                    Bitnami Docker Image for Jenkins           31        [OK]
hikkan/jenkins-docker              Extended Jenkins docker image, bundled wi... 29
xmartlabs/jenkins-android          Jenkins image for Android development.      28        [OK]
openshift/jenkins-2-centos7        A Centos7 based Jenkins v2.x image for use w 23
cloudbees/jenkins-operations-center CloudBees Jenkins Operation Center (Rolling ... 14        [OK]
openshift/jenkins-slave-maven-centos7 A Jenkins slave image with OpenJDK 1.8 and M... 11
vfarctic/jenkins-swarm-agent       Jenkins agent based on the Swarm plugin      8        [OK]
openshift/jenkins-slave-base-centos7 A Jenkins slave base image. DEPRECATED: see ... 7
trion/jenkins-docker-client         Jenkins CI server with docker client         6        [OK]
publicisworldwide/jenkins-slave    Jenkins Slave based on Oracle Linux         5        [OK]
openshift/jenkins-1-centos7        DEPRECATED: A Centos7 based Jenkins v1.x ima 4
ansibleplaybookbundle/jenkins-apb  An APB which deploys Jenkins CI            1        [OK]
amazeeio/jenkins-slave             A jenkins slave that connects to a master vi 0        [OK]
jamesseckersall/jenkins            docker-jenkins (based on openshift jenkins 2... 0        [OK]
dark@dark-HP-Notebook:~/gitfolder$
```

2.install jenkins on docker

- sudo docker search jenkins --#it search images related with jenkins



```
dark@dark-HP-Notebook: ~/gitfolder
root@dark-HP-Notebook: /home/dark
dark@dark-HP-Notebook:~/gitfolder$ sudo docker images
REPOSITORY              TAG          IMAGE ID       CREATED        SIZE
gitlab/gitlab-runner-helper x86_64-2ebc4dc4 b158a2b52edc  37 hours ago  67.5MB
<none>                  <none>       5c4ecd065d71  41 hours ago  568MB
jenkinsci/jenkins        latest       2d9158d1421d  9 days ago    573MB
tomcat                   8.5         d09add1d9c91  3 weeks ago   533MB
nginx                    latest       298ec0e28760  3 weeks ago   133MB
infracloudio/csvserver   latest       8d51f9c25f3d  2 months ago  237MB
prom/prometheus          v2.22.0     7adf5a25557b  4 months ago  168MB
jenkins                   2.60.3      cd14cecfd3a   2 years ago   696MB
dark@dark-HP-Notebook:~/gitfolder$
```

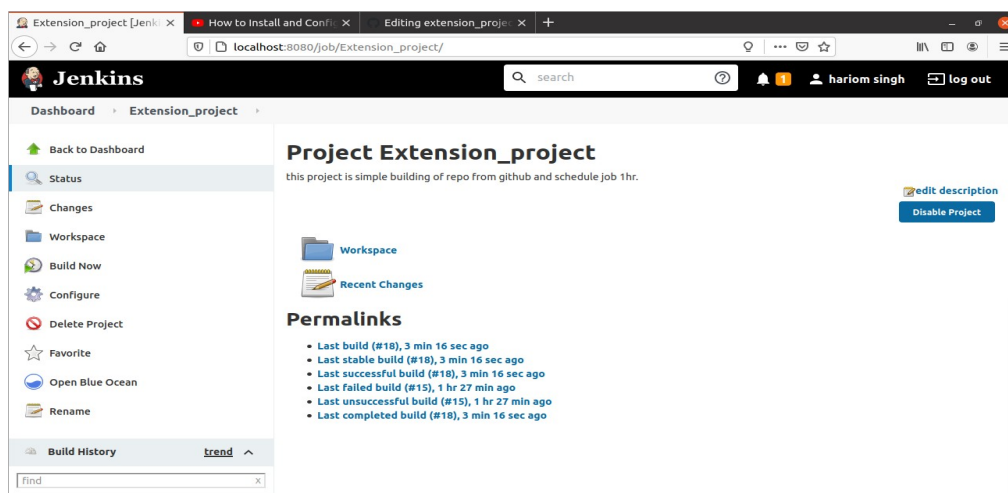
- b) `sudo docker pull jenkins` ----# the image of jenkins is downloaded
- c) `docker run -it --name jenkins1 -p 8080:8080 -p 50000:50000 -v /home/dark/Desktop/jenkins_home:/var/jenkins_home jenkins/jenkins` --# it starts the container with name jenkins and with volume

```

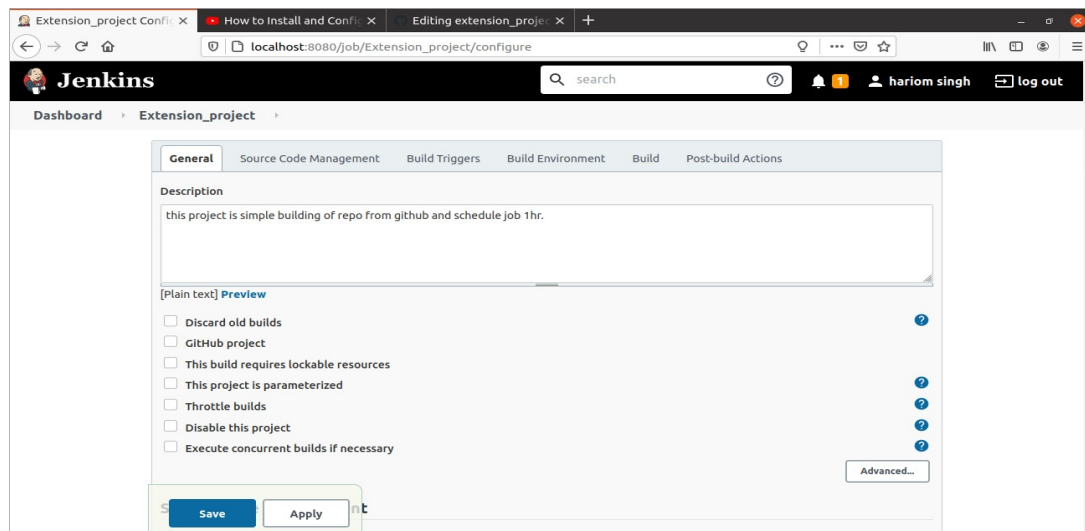
root@dark-HP-Notebook: /home/dark
root@dark-HP-Notebook: /home/dark# docker start jenkins1
jenkins1
root@dark-HP-Notebook: /home/dark# docker attach jenkins1
2021-03-04 14:58:20.982+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2021-03-04 14:58:26.338+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
2021-03-04 14:58:38.551+0000 [id=30] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2021-03-04 14:58:38.723+0000 [id=34] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2021-03-04 14:58:46.431+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2021-03-04 14:58:46.566+0000 [id=27] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2021-03-04 14:58:46.567+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2021-03-04 14:58:46.567+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2021-03-04 14:58:46.568+0000 [id=27] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2021-03-04 14:58:46.747+0000 [id=47] INFO hudson.model.AsyncPeriodicWork#Lambda$doRun$0: Started Download metadata
2021-03-04 14:58:46.917+0000 [id=47] INFO hudson.util.Retrier#start: Attempt #1 to do the action check updates server
2021-03-04 14:58:48.553+0000 [id=32] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2021-03-04 14:58:49.668+0000 [id=21] INFO hudson.WebAppMain$3#run: Jenkins is fully up and running
2021-03-04 14:58:56.779+0000 [id=63] INFO hudson.model.AsyncPeriodicWork#Lambda$doRun$0: Started Periodic background build discarder
2021-03-04 14:58:56.783+0000 [id=63] INFO hudson.model.AsyncPeriodicWork#Lambda$doRun$0: Finished Periodic background build discarder. 2
ms
2021-03-04 14:58:59.980+0000 [id=47] INFO hudson.util.Retrier#start: The attempt #1 to do the action check updates server failed with an
allowed exception:
java.net.UnknownHostException: updates.jenkins.io
    at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:184)
    at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)
    at java.net.Socket.connect(Socket.java:607)
    at sun.security.ssl.SSLSocketImpl.connect(SSLSocketImpl.java:284)
    at sun.net.NetworkClient.doConnect(NetworkClient.java:175)
    at sun.net.www.http.HttpClient.openServer(HttpClient.java:463)
    at sun.net.www.http.HttpClient.openServer(HttpClient.java:558)
    at sun.net.www.protocol.https.HttpsClient.<init>(HttpsClient.java:264)
    at sun.net.www.protocol.https.HttpsClient.New(HttpsClient.java:367)
    at sun.net.www.protocol.https.AbstractDelegateHttpsURLConnection.getNewHttpClient(AbstractDelegateHttpsURLConnection.java:191)
    at sun.net.www.protocol.http.HttpURLConnection.plainConnect0(HttpURLConnection.java:1162)
    at sun.net.www.protocol.http.HttpURLConnection.plainConnect(HttpURLConnection.java:1056)
    at sun.net.www.protocol.https.AbstractDelegateHttpsURLConnection.connect(AbstractDelegateHttpsURLConnection.java:177)
    at sun.net.www.protocol.http.HttpURLConnection.getInputStream0(HttpURLConnection.java:1570)

```

- d) `docker ps` -- # use for see running containers
3. now go to web browser and seach
- a) localhost:8080 we got profile where have to given hash code that is created during running jenkins like 61e33add0f6f93d1a69d82e73958262754dbb3c3a10112033ed18d49dcbe1904
- b) after that we install all the plugins
- c) fill the user details and password
4. create a job

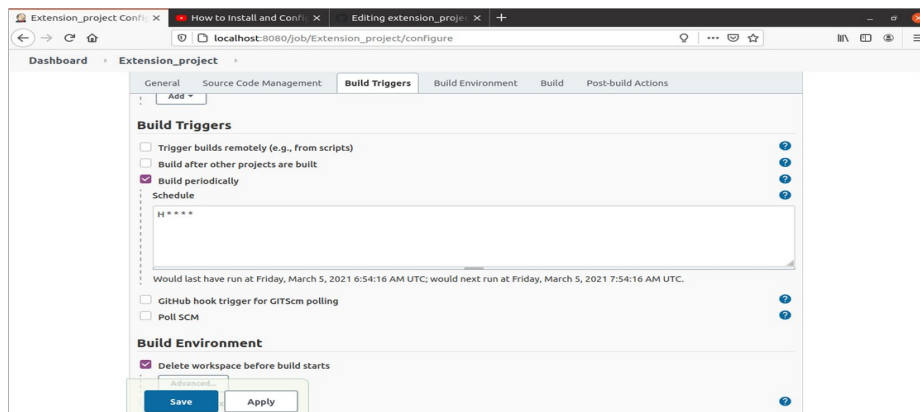


- a) give the name of project > freestyle >
- b) source code management > git and paste the repo url and choose master



- d) create a repo on github and push code in that repo  
[https://github.com/hariomsingh1000/extension\\_project](https://github.com/hariomsingh1000/extension_project)

- c) build trigger > H \* \* \* \* ----# it run a build job after 1 hours.



- d) build environment >> delete workspace before job start
- e) Build -- Excute shell (javac helloworld.java  
java helloworld.)
- 7) save and apply

