Jenkins Task_1

- 1- What is Jenkins used for?
- 2- Install jenkins with docker image.
- 3- what is plugins in jenkins?
- 4- Create free style project and link it to private git repo containing any dockerfile then build an image from this dockerfile and push it to private docker repo

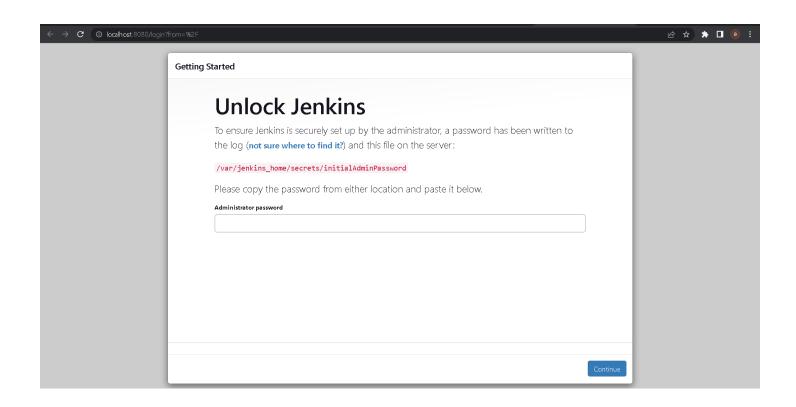
The Solutions:

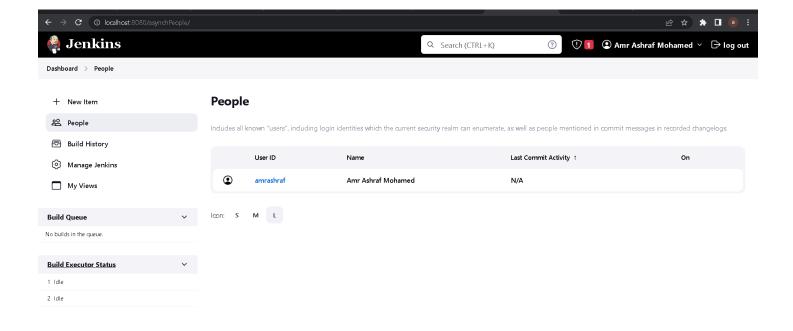
1 - What is Jenkins used for?

Jenkins is an open-source automation server that is widely used for continuous integration and continuous delivery (CI/CD) processes. It helps automate the building, testing, and deployment of software applications

2 - Install jenkins with docker image.

- 1 docker pull jenkins/Jenkins
- 2 docker run -d -p 8080:8080 -p 50000:50000 jenkins/Jenkins
- 3 docker ps to check



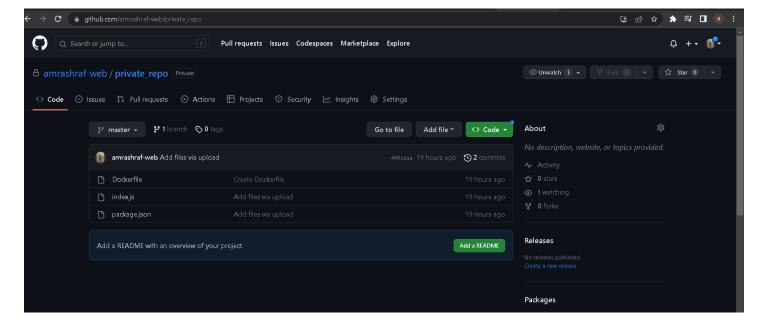


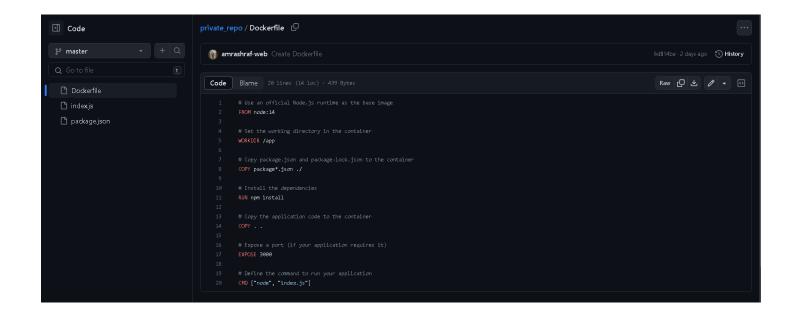
3 - what is plugins in jenkins?

Plugins in Jenkins are extensions that provide additional functionality and features to the Jenkins server. Jenkins has a vast plugin ecosystem that allows you to add and configure plugins to tailor the automation server according to your specific needs. Plugins can provide integrations with various tools, enable new types of projects, extend reporting capabilities, and much more.

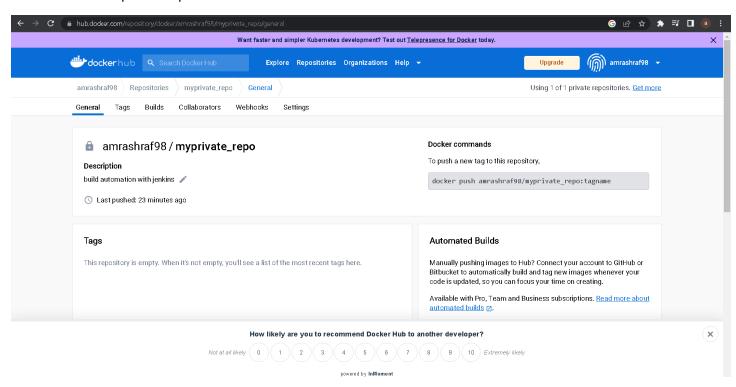
- 4 Create free style project and link it to private git repo containing any dockerfile then build an image from this dockerfile and push it to private docker repo
 - 1 create private repository on my github

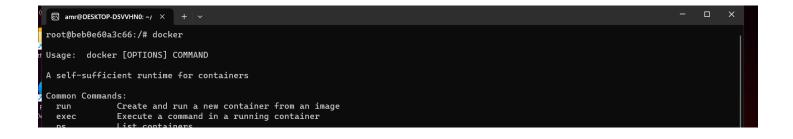
Link: https://github.com/amrashraf-web/private repo





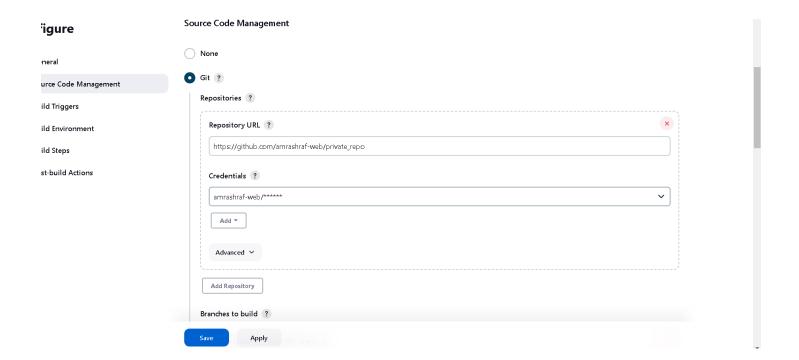
2 - create private repo on docker

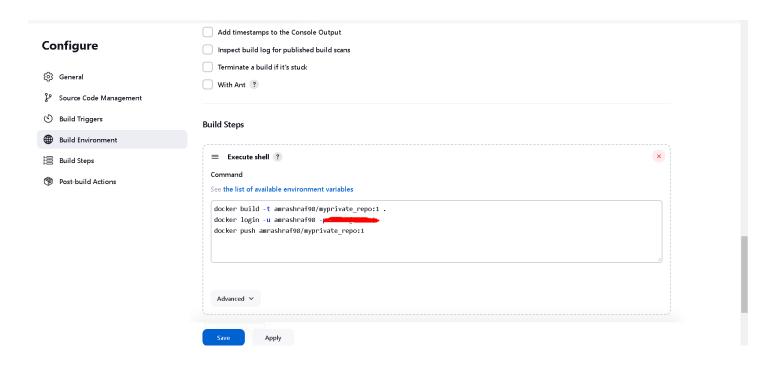


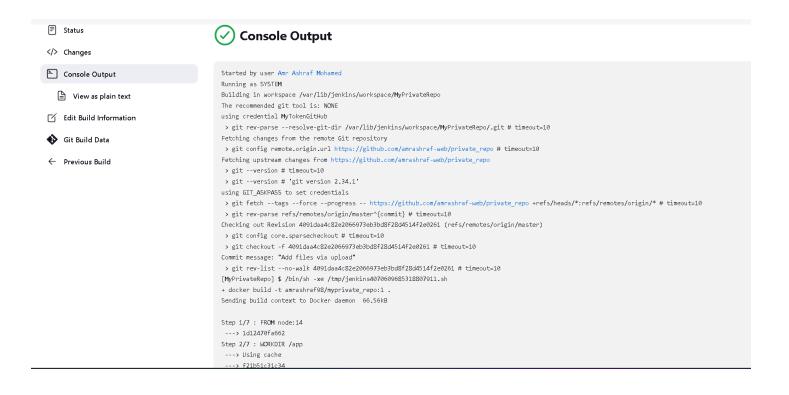


4 - create free style project on Jenkins with credentials user and token of GitHub + commands for docker build and push with image

For configuration project







```
Step 3/7 : COPY package*.json ./
 ---> Using cache
 ---> 6f20e9a3d315
Step 4/7 : RUN npm install
 ---> Using cache
 ---> eae18d61b862
Step 5/7 : COPY . .
---> Using cache
 ---> eb8e39d79dcd
Step 6/7 : EXPOSE 3000
 ---> Using cache
 ---> a394442e135e
Step 7/7 : CMD ["node", "index.js"]
 ---> Using cache
 ---> 2905feba6e7d
Successfully built 2905feba6e7d
Successfully tagged amrashraf98/myprivate_repo:1
+ docker login -u amrashraf98 -p 💳
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
+ docker push amrashraf98/myprivate_repo:1
The push refers to repository [docker.io/amrashraf98/myprivate_repo]
4039e647acc2: Preparing
24c8ef8c1910: Preparing
cc36e004f79d: Preparing
64bd61a60169: Preparing
```

```
c45660adde37: Preparing
fe0fb3ab4a0f: Preparing
f1186e5061f2: Preparing
b2dba7477754: Preparing
e01a454893a9: Waiting
c45660adde37: Waiting
3c777d951de2: Waiting
fe0fb3ab4a0f: Waiting
f8a91dd5fc84: Waiting
f1186e5061f2: Waiting
cb81227abde5: Waiting
0d5f5a015e5d: Mounted from library/node
cc36e004f79d: Pushed
64bd61a60169: Pushed
4039e647acc2: Pushed
3c777d951de2: Mounted from library/node
f8a91dd5fc84: Mounted from library/node
cb81227abde5: Mounted from library/node
e01a454893a9: Mounted from library/node
c45660adde37: Mounted from library/node
fe0fb3ab4a0f: Mounted from library/node
f1186e5061f2: Mounted from library/node
b2dba7477754: Mounted from library/node
24c8ef8c1910: Pushed
1: digest: sha256:1f5bb12d8389e21338130cd4b035d93f6c8cad117c7c85f1b8b147f1df638ebe size: 3048
```

