

Mini project on Jenkins Bo-Lontum

Project requirements

Time Duration : **No limit**

N/A

Total Points : **10**

Minimum Pass Points : **5**

Description

Jenkins Homework1:

Deploy Jenkins server on AWS EC2.

<https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/>

Jenkins Homework2:

Build a Jenkins pipeline using a plugin to automatically build and publish our apache image to **Dockerhub**. The **Dockerfile** would be sourced from GITHUB.

Submission:

Screenshot of your pipeline job console result.

Screenshot of your Docker image published in your Dockerhub.

1) Screen-shot of success in my terminal

```
jenkins@ip-10-0-0-129:~$ history
jenkins@ip-10-0-0-129:~$ !4
ls -l /var/lib/jenkins/workspace/jenkin-docker-project
total 12
-rw-r--r-- 1 jenkins jenkins 3807 Aug  7 22:08 Docker.cheatsheet.yml
-rw-r--r-- 1 jenkins jenkins 460 Aug  7 23:31 Dockerfile
-rw-r--r-- 1 jenkins jenkins 599 Aug  7 23:49 index.html
jenkins@ip-10-0-0-129:~$ docker log in
docker: 'log' is not a docker command.
See 'docker --help'
jenkins@ip-10-0-0-129:~$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/

Username: lontumb700@gmail.com
Password:
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/#credential-stores

Login Succeeded
jenkins@ip-10-0-0-129:~$
```

2) Screen shots of pipeline job console result

The screenshot shows the Jenkins web interface. At the top, the Jenkins logo and a search bar are visible. Below the navigation bar, the breadcrumb trail reads: Dashboard > jenkins-docker-project > #10 lontumb/jenkins-docker-project:v1.2 lontumb/jenkins-docker-project:latest > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main area displays the console output for the job, which includes a list of actions on the left and the corresponding command-line output on the right. The output shows the process of cloning a repository, checking out a specific revision, and pushing the resulting image to Docker Hub.

Console Output

Started by user [admin](#)
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/jenkins-docker-project
The recommended git tool is: NONE
using credential GithubCrebs
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/jenkins-docker-project/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Blontum/docker-project.git # timeout=10
Fetching upstream changes from https://github.com/Blontum/docker-project.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials mygithub Credential
> git fetch --tags --force --progress -- https://github.com/Blontum/docker-project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision e02f6a2221f5b876dd74c3a6f956cde9c2b470cf (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f e02f6a2221f5b876dd74c3a6f956cde9c2b470cf # timeout=10
Commit message: "index.html"

#8 exporting to image
#8 exporting layers done
#8 writing image sha256:ac199f47aeecf16a39c90345eba00fdcd665f76c6daceb8160d23963cdf26626 done
#8 naming to docker.io/lontumb/jenkins-docker-project:latest done
#8 DONE 0.0s
[jenkin-docker-project] \$ docker push lontumb/jenkins-docker-project:v1.2
The push refers to repository [docker.io/lontumb/jenkins-docker-project]
dfe4ce160dcc: Preparing
70611515e0d8: Preparing
505397f2c295: Preparing
505397f2c295: Mounted from library/fedora
dfe4ce160dcc: Pushed
70611515e0d8: Pushed
v1.2: digest: sha256:e1782bb4056ed5fe80ecec53721afa837850b59753209c802f6a5c1e897567d size: 949
[jenkin-docker-project] \$ docker push lontumb/jenkins-docker-project:latest
The push refers to repository [docker.io/lontumb/jenkins-docker-project]
dfe4ce160dcc: Preparing
70611515e0d8: Preparing
505397f2c295: Preparing
dfe4ce160dcc: Layer already exists
70611515e0d8: Layer already exists
505397f2c295: Layer already exists
latest: digest: sha256:e1782bb4056ed5fe80ecec53721afa837850b59753209c802f6a5c1e897567d size: 949
Finished: SUCCESS

3) Screen shot of my docker hub

The screenshot shows the Docker Hub interface for the repository 'lontumb/jenkins-docker-project'. The page is titled 'Tags' and displays two tags: 'latest' and 'v1.2'. Both tags were pushed 3 minutes ago by 'lontumb'. The tags have the same digest 'e1782bb4056e' and are for the 'linux/amd64' architecture. The compressed size for both is 186.27 MB. The 'latest' tag was pulled 3 minutes ago. The page includes a search bar, a 'Filter Tags' input, and a 'Delete' button. The Docker Hub logo and navigation links are visible at the top.

lontumb / Repositories / jenkins-docker-project / Tags

Using 0 of 1 private repositories.

General **Tags** Builds Collaborators Webhooks Settings

Sort by **Newest** Filter Tags Delete

TAG	Digest	OS/ARCH	Last pull	Compressed Size
latest Last pushed 3 minutes ago by lontumb	e1782bb4056e	linux/amd64	3 minutes ago	186.27 MB
v1.2 Last pushed 3 minutes ago by lontumb	e1782bb4056e	linux/amd64	3 minutes ago	186.27 MB

docker pull lontumb/jenkins-docker-project:latest Copy

docker pull lontumb/jenkins-docker-project:v1.2 Copy