Jenkins Lab 2

4- configure jenkins image to run docker commands on your host docker daemon

5- create CI/CD for this repo https://github.com/mahmoud254/jenkins_nodejs_example.git

✅ Console Output

```
Started by user admin
Running in Durability level: MAX_SURVIVABILITY
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/docker-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Preparations)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
 > git rev-parse --resolve-git-dir /var/jenkins_home/workspace/docker-pipeline/.git #
timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/ayakamal
/jenkins_nodejs_example.git # timeout=10
Fetching upstream changes from https://github.com/ayakamal/jenkins_nodejs_example.git
```
Show Applications # timeout=10

---

localhost:8081/job/docker-pipeline/3/console

```
details.
+ docker build . -f dockerfile -t ayakam/sprints_docker_example:latest
Sending build context to Docker daemon  114.2kB

Step 1/5 : FROM node:12
 ---> d9bd070812db
Step 2/5 : COPY nodeapp /nodeapp
 ---> Using cache
 ---> c8d280bc2cc4
Step 3/5 : WORKDIR /nodeapp
 ---> Using cache
 ---> fbf273d6ec7f
Step 4/5 : RUN npm install
 ---> Using cache
 ---> fb5ecfdc30b4
Step 5/5 : CMD ["node", "/nodeapp/app.js"]
 ---> Using cache
 ---> 7c911ab6640a
Successfully built 7c911ab6640a
Successfully tagged ayakam/sprints_docker_example:latest
+ docker login -u ayakam -p ****
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
```

```
Warning: A secret was passed to "sh" using Groovy String interpolation, which is
insecure.
                Affected argument(s) used the following variable(s): [password]
                See https://jenkins.io/redirect/groovy-string-interpolation for
details.
+ docker login -u ayakam -p ****
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
+ docker run -p 3000:3000 -d ayakam/sprints_docker_example:latest
eafa0d3950859a83e55b36498dc61f5c53b4b42547dd4a608a47fec7bb4804e7
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Hello World from ITI!

1- create docker file to build image for jenkins slave
2- create container from this image and configure ssh
3 from jenkins master create new node with the slave container

Dashboard ▸ **Nodes** ▸ **docker_slave**

[10/17/21 23:23:34] [SSH] Checking java version of java
[10/17/21 23:23:35] [SSH] java -version returned 1.8.0_292.
[10/17/21 23:23:35] [SSH] Starting sftp client.
[10/17/21 23:23:35] [SSH] Copying latest remoting.jar...
[10/17/21 23:23:35] [SSH] Copied 1,507,326 bytes.
Expanded the channel window size to 4MB
[10/17/21 23:23:35] [SSH] Starting agent process: cd "/jenkins_home" && java -jar
remoting.jar -workDir /jenkins_home -jar-cache /jenkins_home/remoting/jarCache
Oct 17, 2021 11:23:39 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /jenkins_home/remoting as a remoting work directory
Oct 17, 2021 11:23:39 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /jenkins_home/remoting
<===[JENKINS REMOTING CAPACITY]===>channel started
Remoting version: 4.10
This is a Unix agent
Evacuated stdout
Agent successfully connected and online

Jenkins 2.303.1

	docker_slave	Linux (amd64)	In sync	76.98 GB	1.43
	master	Linux (amd64)	In sync	76.98 GB	1.43
	Data obtained	1 min 21 sec	1 min 21 sec	1 min 22 sec	1 min 21 s

Refresh status