## Jenkins/Lab2

Lab2:

1)configure jenkins image to run docker commands on your hos docker daemon.

Dockerfile -->

```
## Command to run the docker container
docker run -d -p 8087:8080 -v jenkins_home:/var/jenkins_home -v /var/run/docker.sock:/var/run/docker.sock jenkins_docker
```

2)create CI/CD for this repo https://github.com/mahmoud254/jenkins\_nodejs\_example.git.

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```
ahmed@Magdi ~/D/N/jenkins_nodejs_example (master)> <mark>docker ps | grep Node</mark>
96c944a5a47d amagdi888/my-repo:<mark>Node</mark>JS "docker-entrypoint.s..." 2 minutes ago Up 2 minutes 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp
ahmed@Magdi ~/D/N/jenkins_nodejs_example (master)> [
```

3) create docker file to build image for jenkins slave.

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```
pinkins_slave_dockerfile > ...

FROM ubuntu:latest

USER root

RUN apt-get update -y && apt-get install -y openjdk-11-jdk openssh-server

RUN useradd -m -s /bin/bash jenkins

RUN mkdir -p /home/jenkins/.ssh

COPY iti.pub /home/jenkins/.ssh/authorized_keys

RUN chomod 700 /home/jenkins/.ssh

RUN chmod 700 /home/jenkins/.ssh

RUN chmod 700 /home/jenkins/.ssh/authorized_keys

RUN chmod 644 /home/jenkins/.ssh/authorized_keys

USER jenkins

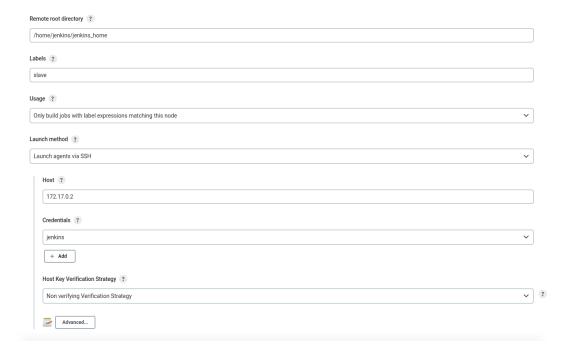
RUN mkdir /home/jenkins/jenkins home

WORKOIR /home/jenkins/jenkins home

TRYPOSE 22

CMD [ "bash" ]
```

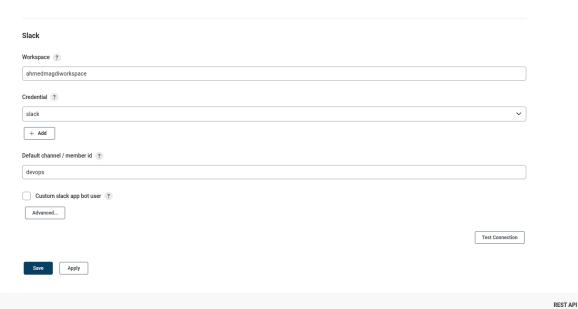
#generate key pairs
ssh-keygen
docker build -t jenkins\_slave -f jenkins\_slave\_dockerfile .
docker run -itd jenkins\_slave
docker exec -it -u 0 \${containerId} bash
service ssh start



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4) integrate slack with jenkins.



5) send slack message when stage in your pipeline is successful.

from <a href="https://www.jenkins.io/doc/book/pipeline/syntax/#post-example">https://www.jenkins.io/doc/book/pipeline/syntax/#post-example</a>

https://www.jenkins.io/doc/pipeline/steps/slack/

https://eavnitech.com/blog/send-notification-to-slack-from-the-Jenkins-CI-job-and-jenkinsfile/



## 6) install audit logs plugin and test it.

Log session start time 2022-07-23T18:34:56.246Z

Time	Thread	Level	Logger	Message
2022-07-23T18:35:46.973Z	Handling POST /job/lab-1/doDelete from 172.17.0.1 : Jetty (winstone)-27	OFF	AuditLogger	Audit [updateItem itemName="lab-1" itemUri="job/lab-1/" timestamp="2022-07-23T18:35:46.968Z" userId="ahmed"]
MDC: {requestUri=job/lab-1/doDelete, userId=ahmed, requestId=363582e4-811e-4456-940f-043dc7b0068f, requestMethod=POST}				
2022-07-23T18:35:47.134Z	Handling POST /job/lab-1/doDelete from 172.17.0.1 : Jetty (winstone)-27	OFF	AuditLogger	Audit [deleteItem itemName="lab-1" itemUri="job/lab-1/" timestamp="2022-07-23T18:35:47.134Z" userId="ahmed"]
MDC: {requestUri=/job/lab-1/doDelete, userId=ahmed, requestId=363582e4-811e.4456-940f-043dc7b6068f, requestMethod=POST}				

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