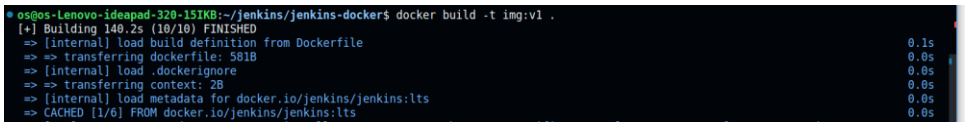
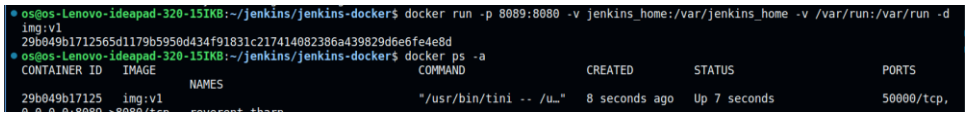
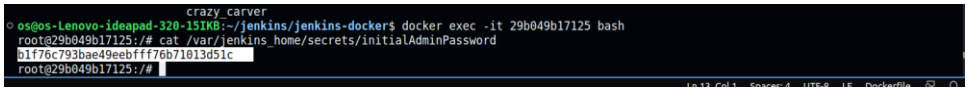
4- configure jenkins image to run docker commands on your host docker daemon

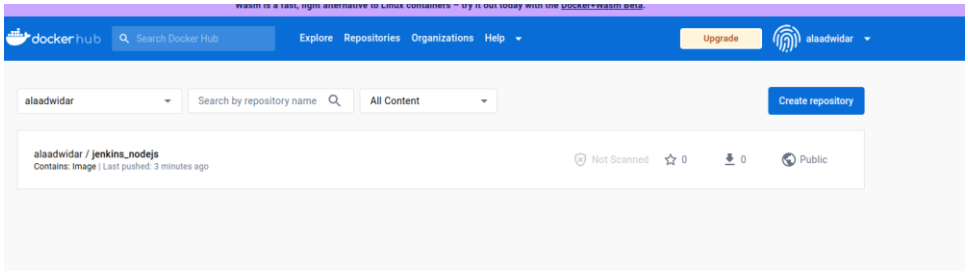






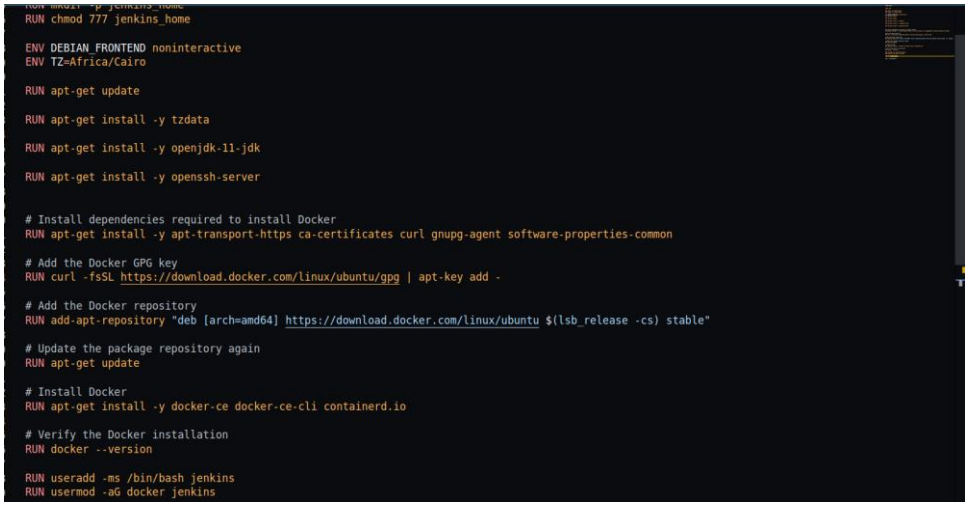
5- create CI/CD for this repo https://github.com/mahmoud254/jenkins_nodejs_example.git

```
7ee8dadb31a1: Pushed
95904c181913: Mounted from library/node
df69bfa94785: Mounted from library/node
f35deb8d96fc: Mounted from library/node
f6c2459e2059: Mounted from library/node
f8323fb3a55c: Mounted from library/node
2f4dc9775f33: Mounted from library/node
latest: digest: sha256:2a63a2e29ed8489add04d8d2b272bf2054689a383cb19ee49125d49a6421b3c9 size: 2839
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (CD)
[Pipeline] withCredentials
Masking supported pattern matches of $PASS
[Pipeline] {
[Pipeline] sh
Warning: A secret was passed to "sh" using Groovy String interpolation, which is insecure.
                 Affected argument(s) used the following variable(s): [PASS]
                 See https://jenkins.io/redirect/groovy-string-interpolation for details.
+ docker login -u alaadwidar -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 -d -p 3000:3000 alaadwidar/jenkins_nodejs
51f7b2f4280779be0c0520e7cea771835e3ee17ea922fad037d6e167edead9c6
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



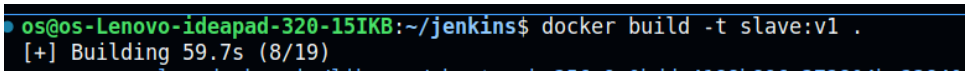
##################

1- create docker file to build image for jenkins slave



```
RUN chmod 777 jenkins_home

ENV DEBIAN_FRONTEND noninteractive
ENV TZ=Africa/Cairo

RUN apt-get update

RUN apt-get install -y tzdata

RUN apt-get install -y openjdk-11-jdk

RUN apt-get install -y openssh-server


# Install dependencies required to install Docker
RUN apt-get install -y apt-transport-https ca-certificates curl gnupg-agent software-properties-common

# Add the Docker GPG key
RUN curl -fsSL https://download.docker.com/linux/ubuntu/gpg | apt-key add -

# Add the Docker repository
RUN add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"

# Update the package repository again
RUN apt-get update

# Install Docker
RUN apt-get install -y docker-ce docker-ce-cli containerd.io

# Verify the Docker installation
RUN docker --version

RUN useradd -ms /bin/bash jenkins
RUN usermod -aG docker jenkins
```

2- create container from this image and configure ssh

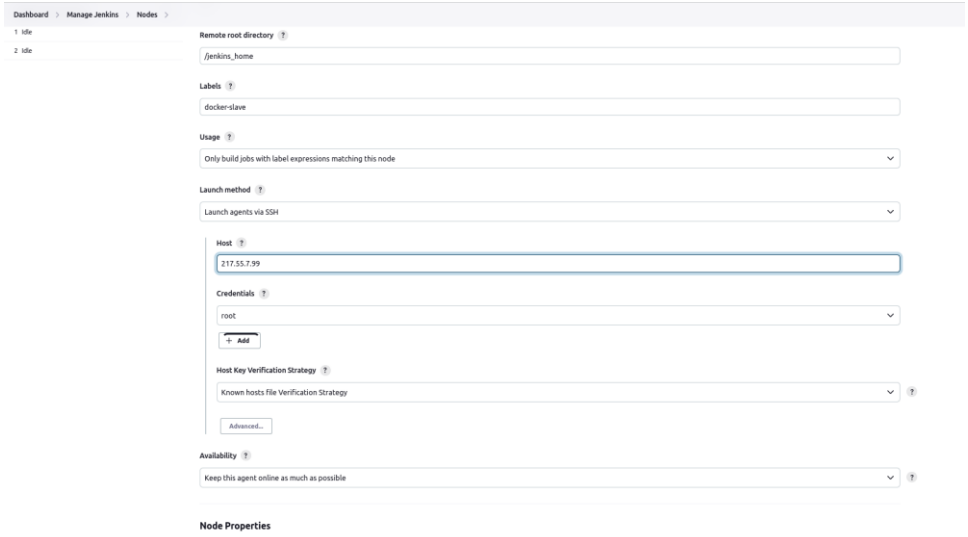


```
os@os-Lenovo-ideapad-320-15IKB:~/jenkins$ docker build -t slave:v1 .
[+] Building 59.7s (8/19)
```

```
 => => naming to docker.io/library/slave:v1

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
os@os-Lenovo-ideapad-320-15IKB:~/jenkins$ docker run  -d slave:v1
a40d9abaf7a7112640408 2bf8ce59f19ea95d31607686ce613af29d94f8428c7
os@os-Lenovo-ideapad-320-15IKB:~/jenkins$ docker ps -a
CONTAINER ID   IMAGE                                  COMMAND                  CREATED          STATUS                      PORTS
           NAMES
a40d9abaf7a7   slave:v1                               "/bin/bash"              41 seconds ago   Exited (0) 38 seconds ago
           sad_lichterman
```

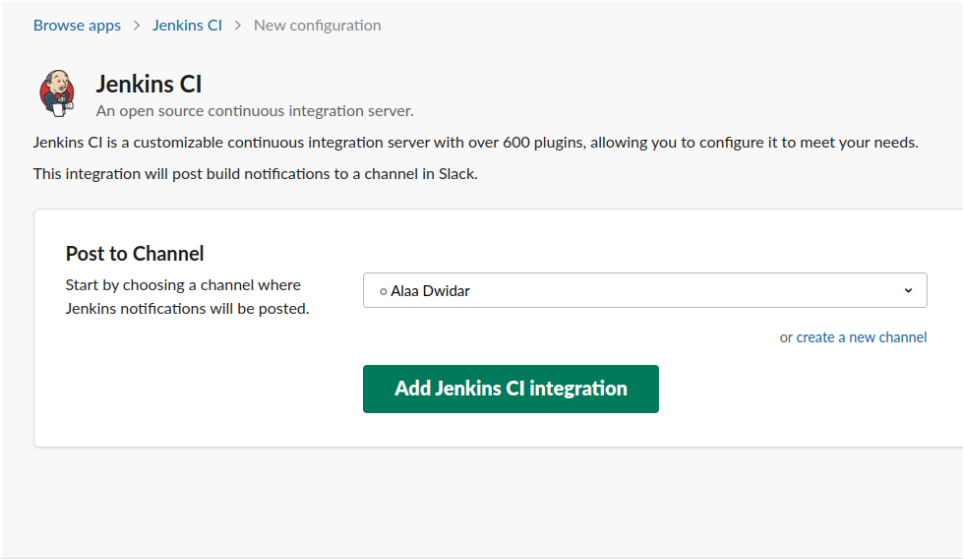
```
root@05d493e0dc46:/jenkins_home# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa): authorized_keys
```

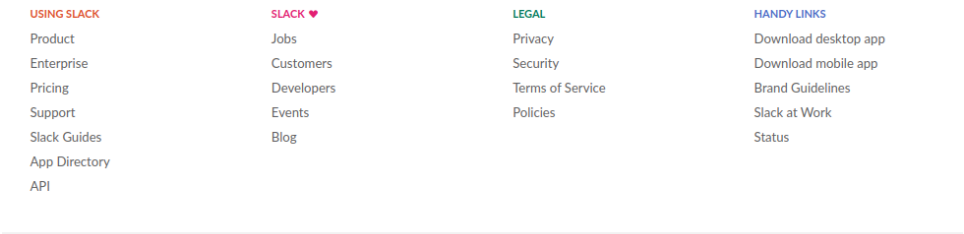
3 from jenkins master create new node with the slave container

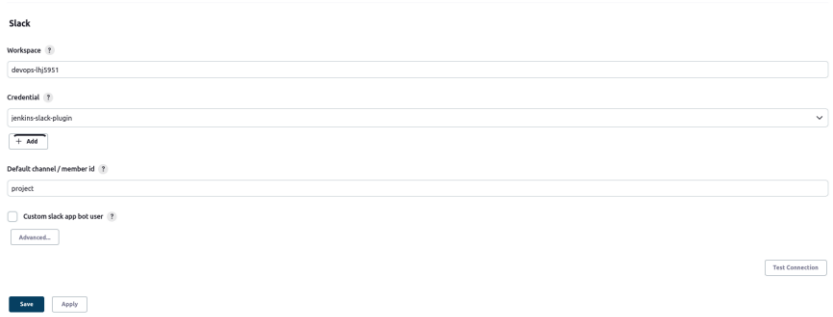


```
_=']'
Checking Java version in the PATH
openjdk version "11.0.17" 2022-10-18
OpenJDK Runtime Environment (build 11.0.17+8-post-Ubuntu-1ubuntu222.04)
OpenJDK 64-Bit Server VM (build 11.0.17+8-post-Ubuntu-1ubuntu222.04, mixed mode, sharing)
[02/07/23 01:23:53] [SSH] Checking java version of /jenkins_home/jdk/bin/java
Couldn't figure out the Java version of /jenkins_home/jdk/bin/java
bash: line 1: /jenkins_home/jdk/bin/java: No such file or directory

[02/07/23 01:23:53] [SSH] Checking java version of java
[02/07/23 01:23:53] [SSH] java -version returned 11.0.17.
[02/07/23 01:23:53] [SSH] Starting sftp client.
[02/07/23 01:23:53] [SSH] Copying latest remoting.jar...
[02/07/23 01:23:53] [SSH] Copied 1,368,830 bytes.
Expanded the channel window size to 4MB
[02/07/23 01:23:53] [SSH] Starting agent process: cd "/jenkins_home" && java  -jar
remoting.jar -workDir /jenkins_home -jar-cache /jenkins_home/remoting/jarCache
Feb 07, 2023 1:23:54 AM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /jenkins_home/remoting as a remoting work directory
Feb 07, 2023 1:23:54 AM 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: 3077.vd69cf116da_6f
Launcher: SSHLauncher
Communication Protocol: Standard in/out
This is a Unix agent
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by jenkins.slaves.StandardOutputSwapper$ChannelSwapper
to constructor java.io.FileDescriptor(int)
WARNING: Please consider reporting this to the maintainers of
jenkins.slaves.StandardOutputSwapper$ChannelSwapper
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access
operations
WARNING: All illegal access operations will be denied in a future release
Evacuated stdout
Agent successfully connected and online
```

4- integrate slack with jenkins

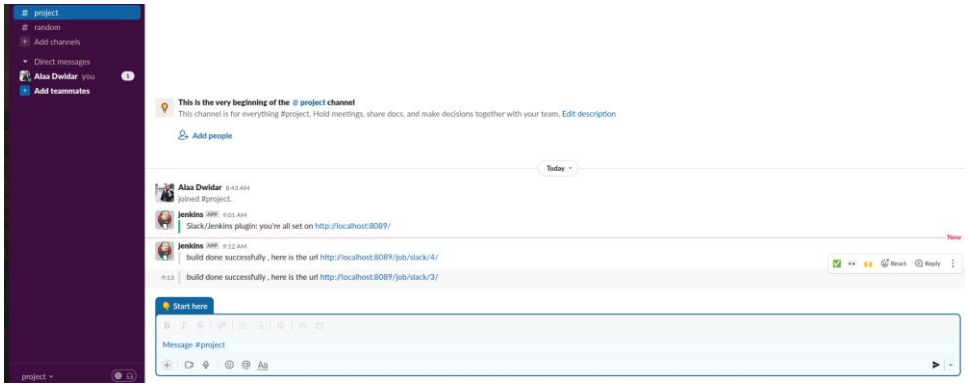




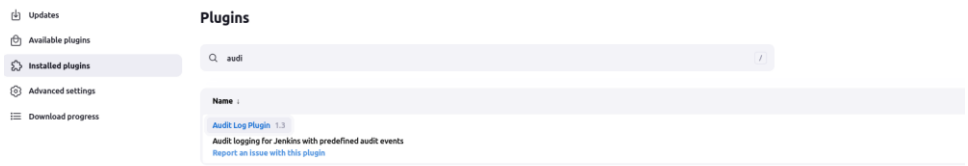


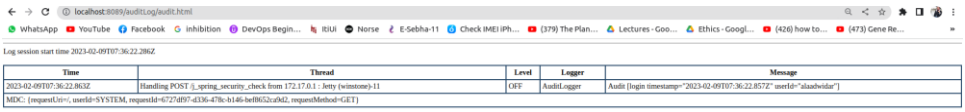
5- send slack message when stage in your pipeline is successful

```
pipeline {
    agent any

    stages {
        stage('Hello') {
            steps {
                echo 'Hello World'

            }
        post{

        success{
            slackSend(message:"build done successfully , here is the url ${BUILD_URL}")
        }
        failure{
            slackSend(message:"buid failed , here is the url ${BUILD_URL}" )
        }

        }

        }
    }
}
```

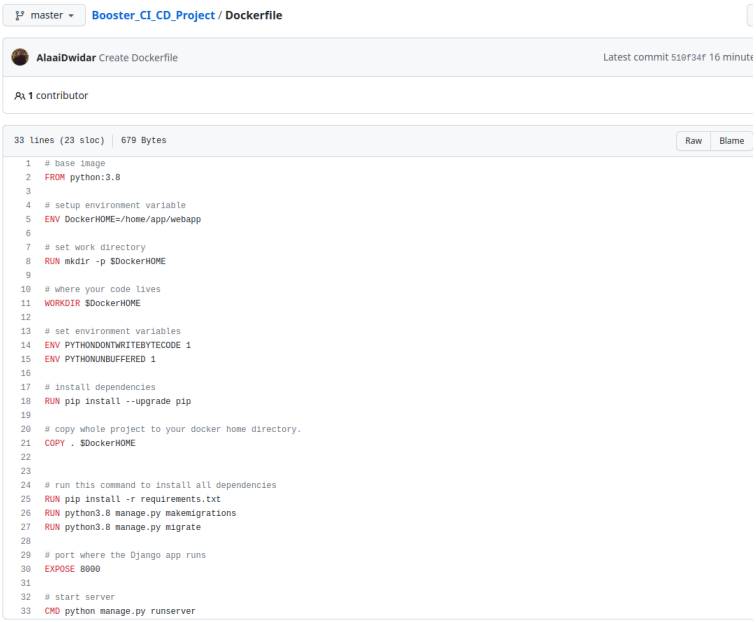


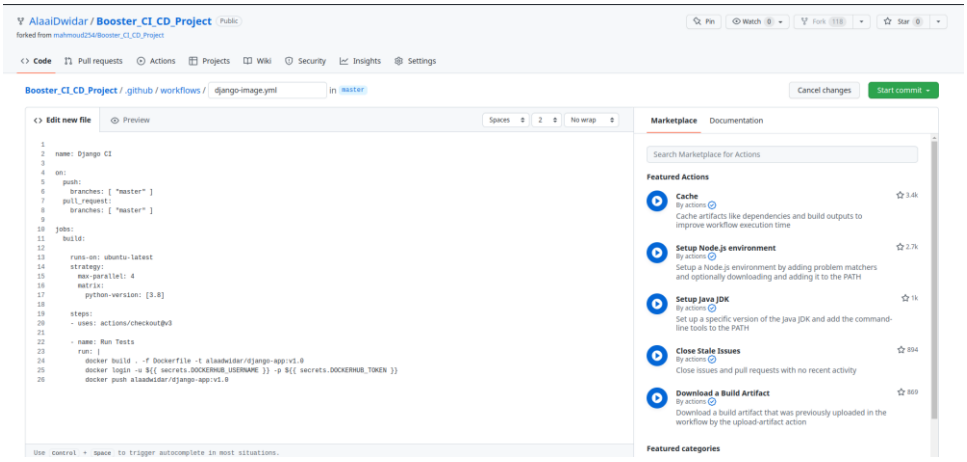
6- install audit logs plugin and test it

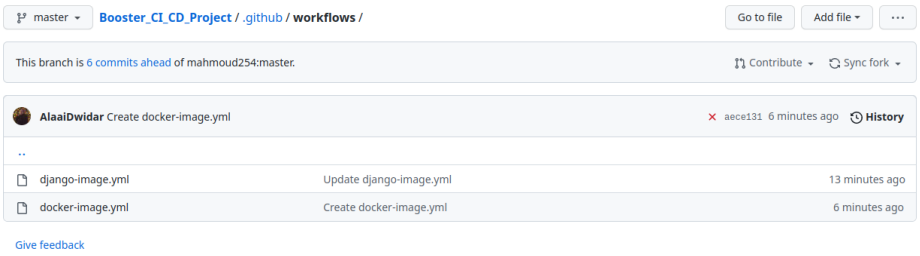


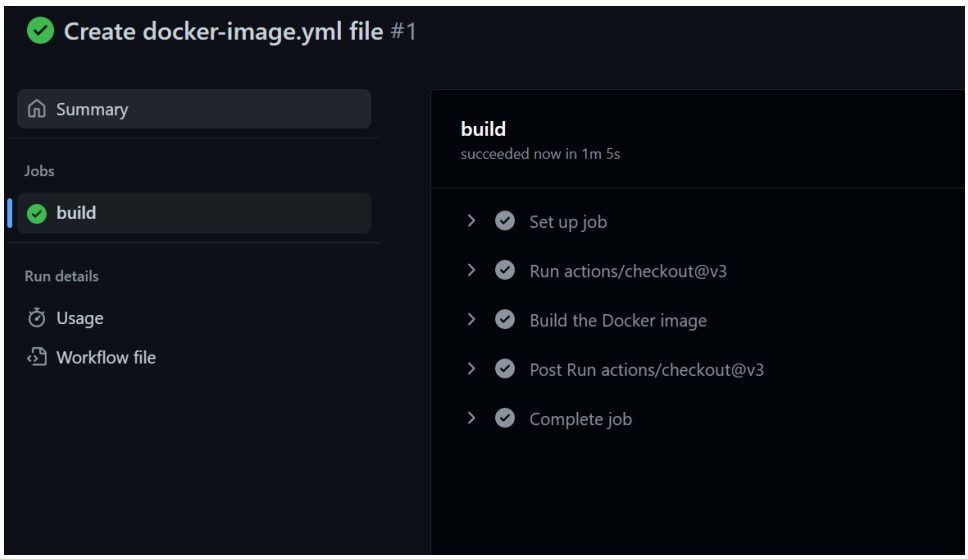


7- fork the following repo https://github.com/mahmoud254/Booster_CI_CD_Project and add dockerfile to run this django app and use github actions to build the docker image and push it to your dockerhub




AlaaiDwidar / Booster_CI_CD_Project
Public
forked from mahmoud254/Booster_CI_CD_Project
Pin
Watch 0
Fork 118
Star 0
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Booster_CI_CD_Project / .github / workflows / django-image.yml
in master
Cancel changes
Start commit
Edit new file
Preview
Spaces
2
No wrap
name: Django CI
on:
push:
branches: ["master"]
pull_request:
branches: ["master"]
jobs:
build:
runs-on: ubuntu-latest
strategy:
max-parallel: 4
matrix:
python-version: [3.8]
steps:
- uses: actions/checkout@v3
- name: Run Tests
run: |
docker build . -f Dockerfile -t alaadwidar/django-app:v1.0
docker login -u ${{ secrets.DOCKERHUB_USERNAME }} -p ${{ secrets.DOCKERHUB_TOKEN }}
docker push alaadwidar/django-app:v1.0
Use Control + Space to trigger autocomplete in most situations.
Marketplace
Documentation
Search Marketplace for Actions
Featured Actions
Cache
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time
3.4k
Setup Node.js environment
By actions
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH
2.7k
Setup Java JDK
By actions
Set up a specific version of the Java JDK and add the command-line tools to the PATH
1k
Close Stale Issues
By actions
Close issues and pull requests with no recent activity
894
Download a Build Artifact
By actions
Download a build artifact that was previously uploaded in the workflow by the upload-artifact action
869
Featured categories


master
Booster_CI_CD_Project / .github / workflows /
Go to file
Add file
This branch is 6 commits ahead of mahmoud254:master.
Contribute
Sync fork
AlaaiDwidar Create docker-image.yml
aece131 6 minutes ago
History
..
django-image.yml
Update django-image.yml
13 minutes ago
docker-image.yml
Create docker-image.yml
6 minutes ago
Give feedback


Create docker-image.yml file #1
Summary
Jobs
build
Run details
Usage
Workflow file
build
succeeded now in 1m 5s
Set up job
Run actions/checkout@v3
Build the Docker image
Post Run actions/checkout@v3
Complete job