Part 1:

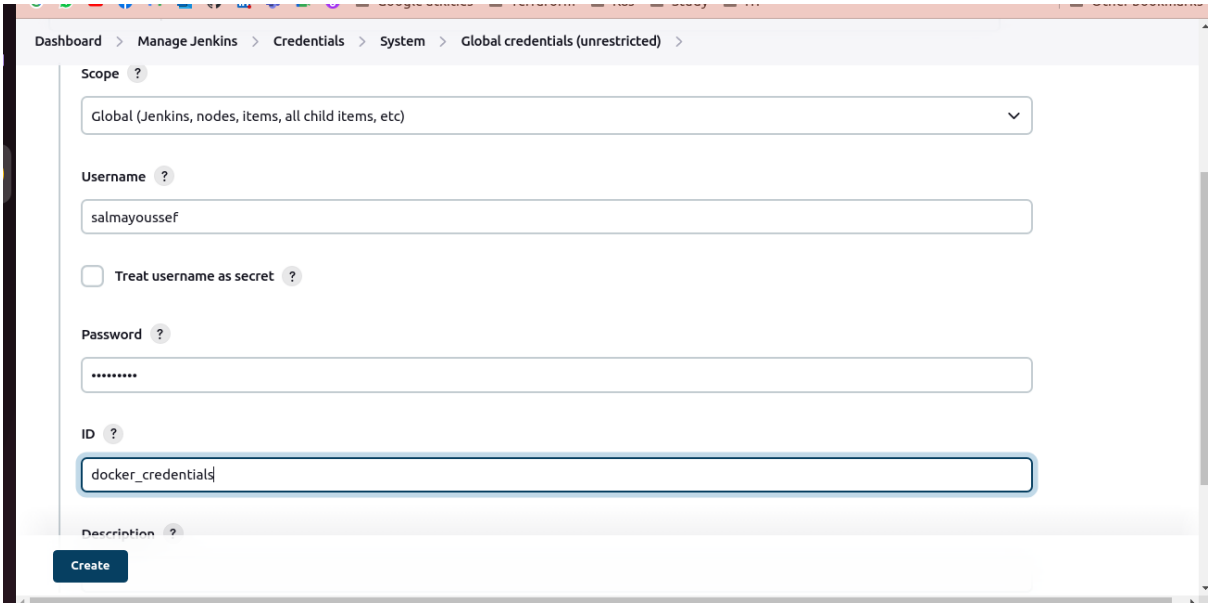
Q4:

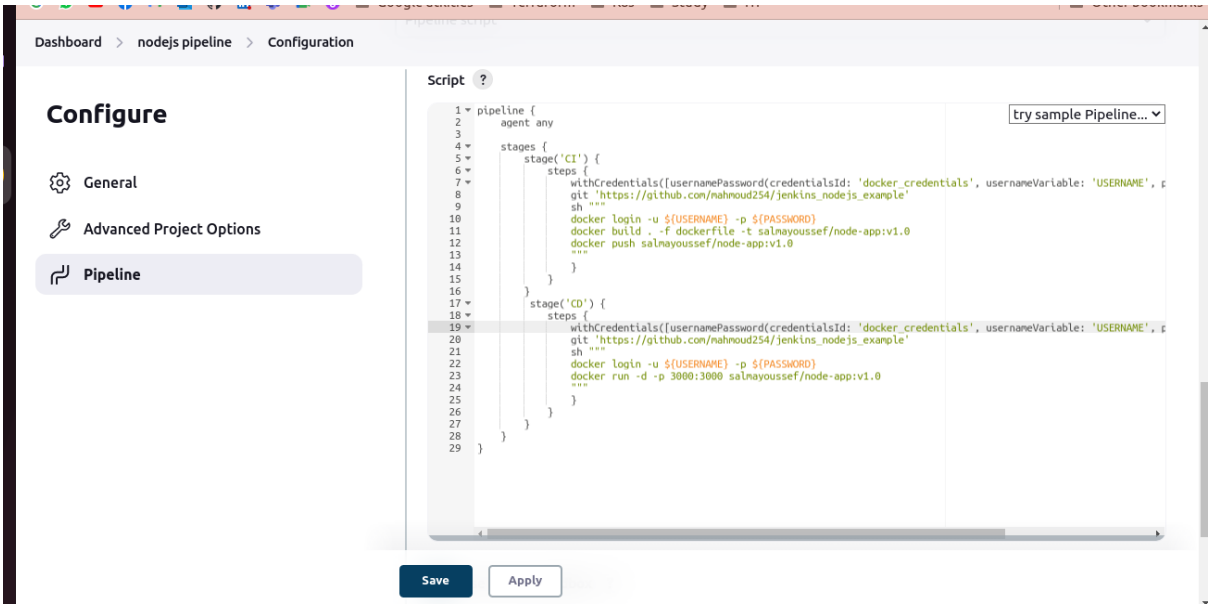
```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Jenkins$ sudo docker ps -a
CONTAINER ID   IMAGE                          COMMAND                  CREATED          STATUS                     PORTS
                     NAMES
4163b411ecb3   jenkins_img2                   "/usr/bin/tini -- /u…"   19 seconds ago   Up 18 seconds              50000/tcp, 0.0.0.0:8084->808
0/tcp, :::8084->8080/tcp   boring_bell
a68b5596d4ad   jenkins_img2                   "/usr/bin/tini -- /u…"   37 seconds ago   Created
                     cranky_jang
e9f4aeda6dab   jenkins/jenkins:lts            "/usr/bin/tini -- /u…"   2 days ago       Up 54 minutes              50000/tcp, 0.0.0.0:8083->808
0/tcp, :::8083->8080/tcp   suspicious_cartwright
8a44e7772472   redis                          "docker-entrypoint.s…"   5 days ago       Exited (0) 5 days ago
                     local_redis_image
cf2ed90608c1   demo_python_app_image:1.0      "/bin/sh -c 'export …"   5 days ago       Exited (1) 5 days ago
                     demo_python_app_container
7997208f51a9   expose_image:4.0               "/bin/sh -c 'export …"   5 days ago       Exited (1) 5 days ago
                     expose_container5
688ddf6b337a   expose_image:4.0               "/bin/sh -c 'export …"   5 days ago       Exited (0) 5 days ago
                     expose_container4
db255e982a3c   expose_image:3.0               "pyhton hello.py"        5 days ago       Created                    8000/tcp
                     expose_container3
8374ac4ca613   expose_image:2.0               "pyhton hello.py"        5 days ago       Created                    8000/tcp
                     expose_container2
f3e04c0832ed   expose_image:1.0               "pyhton3 hello.py"       5 days ago       Created                    8000/tcp
                     expose_container1
5be72f427f9e   env_image:1.0                  "/bin/sh -c 'export …"   5 days ago       Exited (1) 5 days ago
                     env_container1
080df87a951d   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago       Exited (1) 5 days ago
                     entry_point_container3
11cf8b5fa279   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago       Exited (1) 5 days ago
                     entry_point_container2
2f6cdbc2241c   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago       Exited (1) 5 days ago
                     entry_point_container1
c83636fc6c74   remove_run_cmd_image:1.0       "pyhton3 hello.py"       5 days ago       Created
                     remove_run_cmd_container1
1df130f8ca10   upgrade_pip_image:3.0          "/bin/sh -c 'export …"   5 days ago       Exited (1) 5 days ago
                     upgrade_pip_container7
d6cf150aa464   upgrade_pip_image:3.0          "/bin/sh -c 'export …"   5 days ago       Exited (1) 5 days ago
```

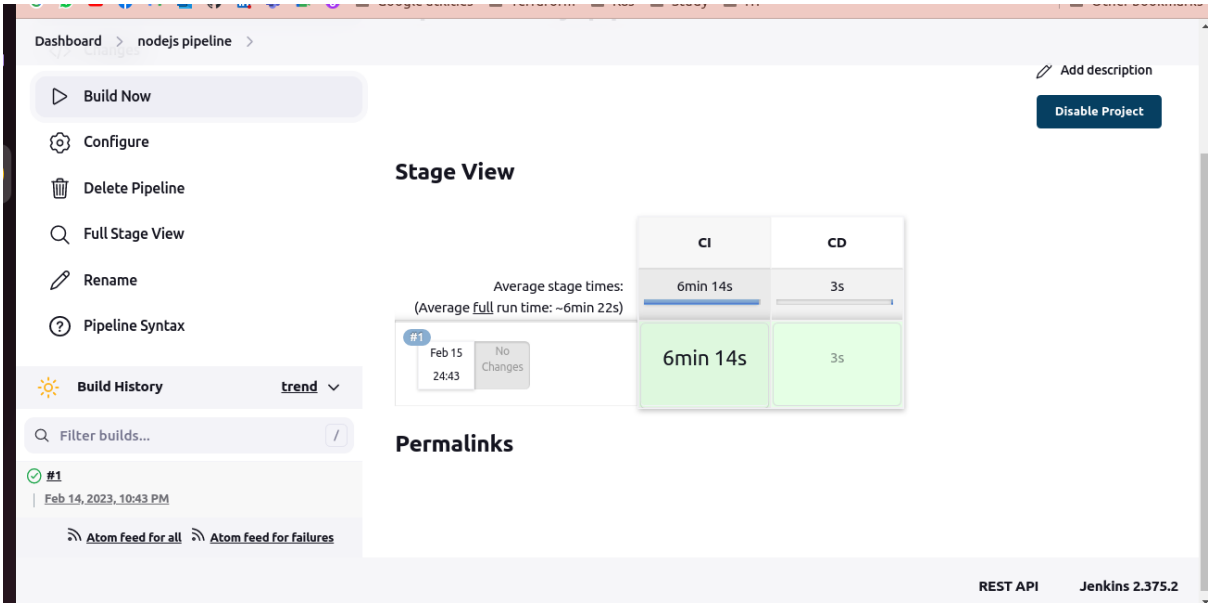
inside the container

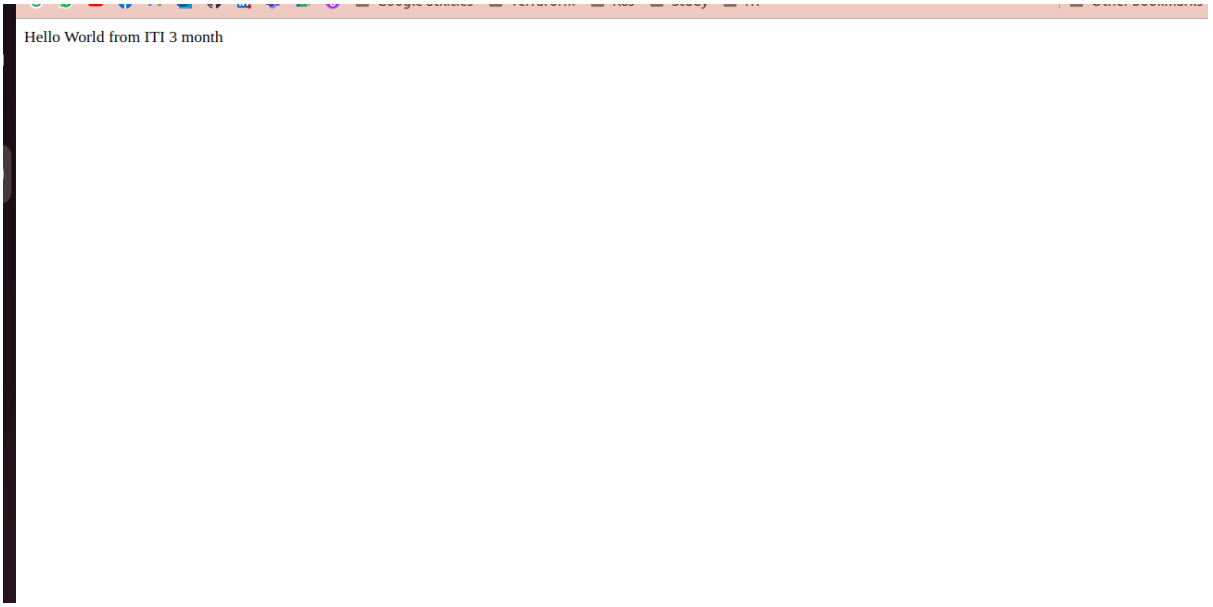
```
root@4163b411ecb3:/# sudo docker ps -a
bash: sudo: command not found
root@4163b411ecb3:/# docker ps -a
CONTAINER ID   IMAGE                          COMMAND                  CREATED              STATUS                     PORTS
                     NAMES
4163b411ecb3   jenkins_img2                   "/usr/bin/tini -- /u…"   About a minute ago   Up About a minute          50000/tcp, 0.0.0.0:8084-
>8080/tcp, :::8084->8080/tcp   boring_bell
a68b5596d4ad   jenkins_img2                   "/usr/bin/tini -- /u…"   About a minute ago   Created
                     cranky_jang
e9f4aeda6dab   jenkins/jenkins:lts            "/usr/bin/tini -- /u…"   2 days ago           Up 55 minutes              50000/tcp, 0.0.0.0:8083-
>8080/tcp, :::8083->8080/tcp   suspicious_cartwright
8a44e7772472   redis                          "docker-entrypoint.s…"   5 days ago           Exited (0) 5 days ago
                     local_redis_image
cf2ed90608c1   demo_python_app_image:1.0      "/bin/sh -c 'export …"   5 days ago           Exited (1) 5 days ago
                     demo_python_app_container
7997208f51a9   expose_image:4.0               "/bin/sh -c 'export …"   5 days ago           Exited (1) 5 days ago
                     expose_container5
688ddf6b337a   expose_image:4.0               "/bin/sh -c 'export …"   5 days ago           Exited (0) 5 days ago
                     expose_container4
db255e982a3c   expose_image:3.0               "pyhton hello.py"        5 days ago           Created                    8000/tcp
                     expose_container3
8374ac4ca613   expose_image:2.0               "pyhton hello.py"        5 days ago           Created                    8000/tcp
                     expose_container2
f3e04c0832ed   expose_image:1.0               "pyhton3 hello.py"       5 days ago           Created                    8000/tcp
                     expose_container1
5be72f427f9e   env_image:1.0                  "/bin/sh -c 'export …"   5 days ago           Exited (1) 5 days ago
                     env_container1
080df87a951d   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago           Exited (1) 5 days ago
                     entry_point_container3
11cf8b5fa279   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago           Exited (1) 5 days ago
                     entry_point_container2
2f6cdbc2241c   entrypoint_python_image:1.0    "python3 hello.py"       5 days ago           Exited (1) 5 days ago
                     entry_point_container1
c83636fc6c74   remove_run_cmd_image:1.0       "pyhton3 hello.py"       5 days ago           Created
                     remove_run_cmd_container1
1df130f8ca10   upgrade_pip_image:3.0          "/bin/sh -c 'export …"   5 days ago           Exited (1) 5 days ago
```

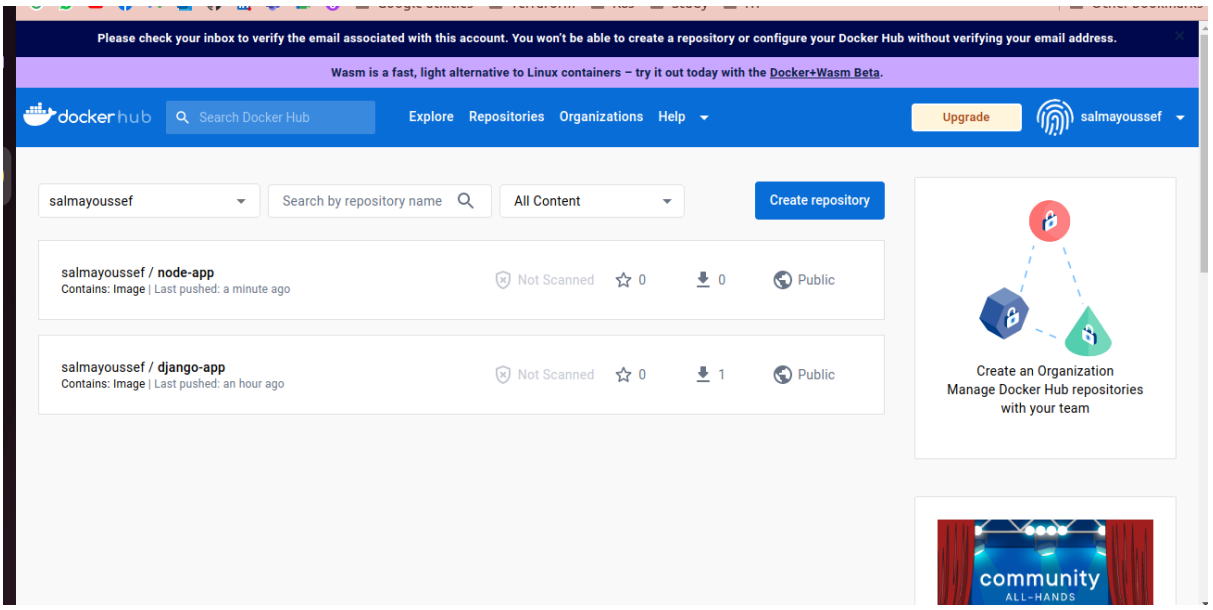
Q5:


Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >
Scope ?
Global (Jenkins, nodes, items, all child items, etc)
Username ?
salmayoussef
Treat username as secret ?
Password ?
••••••••
ID ?
docker_credentials
Description ?
Create


Dashboard > nodejs pipeline > Configuration
Configure
General
Advanced Project Options
Pipeline
Script ?
try sample Pipeline...
pipeline {
agent any
stages {
stage('CI') {
steps {
withCredentials([usernamePassword(credentialsId: 'docker_credentials', usernameVariable: 'USERNAME',
git 'https://github.com/mahmoud254/jenkins_nodejs_example'
sh """
docker login -u ${USERNAME} -p ${PASSWORD}
docker build . -f dockerfile -t salmayoussef/node-app:v1.0
docker push salmayoussef/node-app:v1.0
"""
}
}
}
stage('CD') {
steps {
withCredentials([usernamePassword(credentialsId: 'docker_credentials', usernameVariable: 'USERNAME',
git 'https://github.com/mahmoud254/jenkins_nodejs_example'
sh """
docker login -u ${USERNAME} -p ${PASSWORD}
docker run -d -p 3000:3000 salmayoussef/node-app:v1.0
"""
}
}
}
}
}
Save
Apply

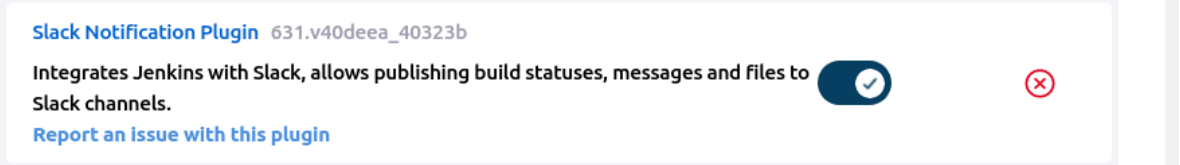

Dashboard
nodejs pipeline
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Filter builds...
#1
Feb 14, 2023, 10:43 PM
Atom feed for all
Atom feed for failures
Add description
Disable Project
Stage View
CI
CD
Average stage times:
(Average full run time: ~6min 22s)
6min 14s
3s
#1
Feb 15
24:43
No Changes
6min 14s
3s
Permalinks
REST API
Jenkins 2.375.2


Hello World from ITI 3 month

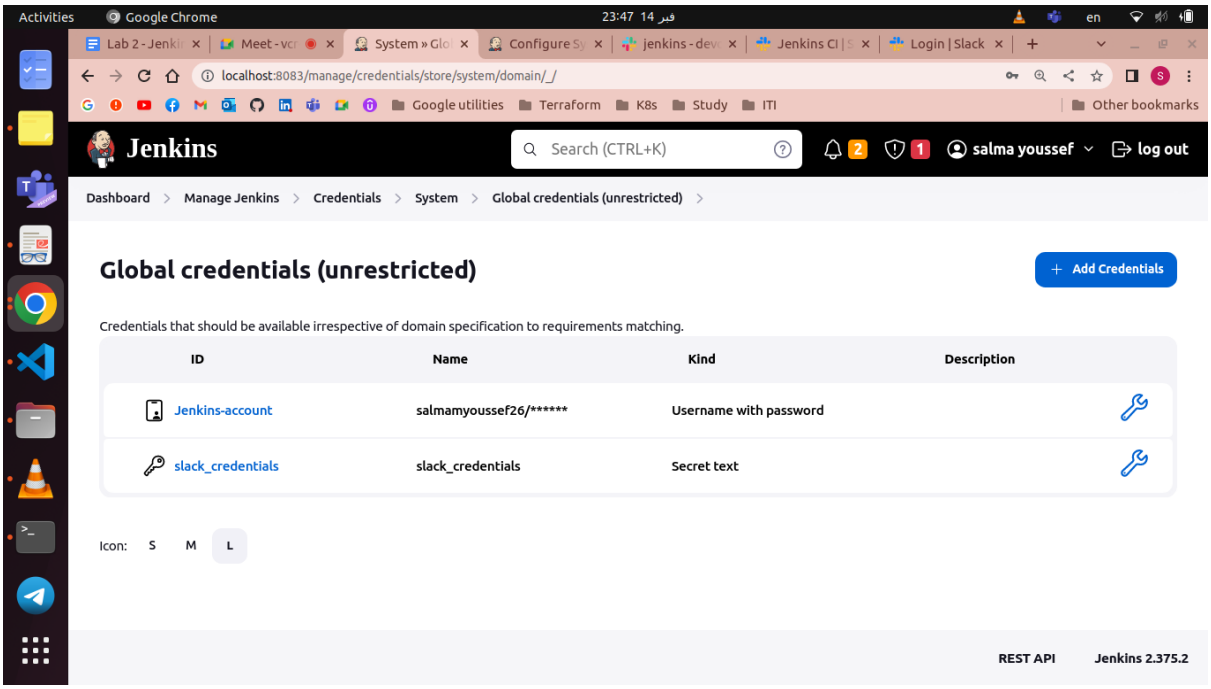

Please check your inbox to verify the email associated with this account. You won't be able to create a repository or configure your Docker Hub without verifying your email address.
Wasm is a fast, light alternative to Linux containers – try it out today with the Docker+Wasm Beta.
docker hub
Search Docker Hub
Explore
Repositories
Organizations
Help
Upgrade
salmayoussef
salmayoussef
Search by repository name
All Content
Create repository
salmayoussef / node-app
Contains: Image | Last pushed: a minute ago
Not Scanned
0
0
Public
salmayoussef / django-app
Contains: Image | Last pushed: an hour ago
Not Scanned
0
1
Public
Create an Organization
Manage Docker Hub repositories
with your team
community
ALL-HANDS

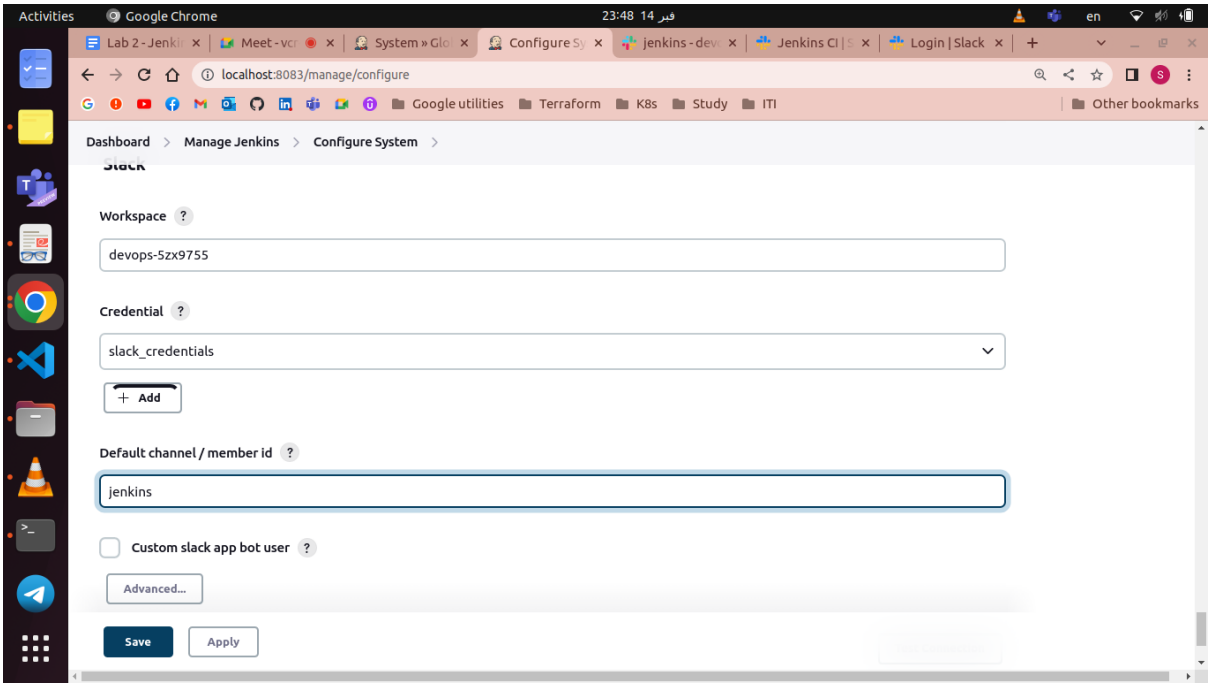
Part 2:

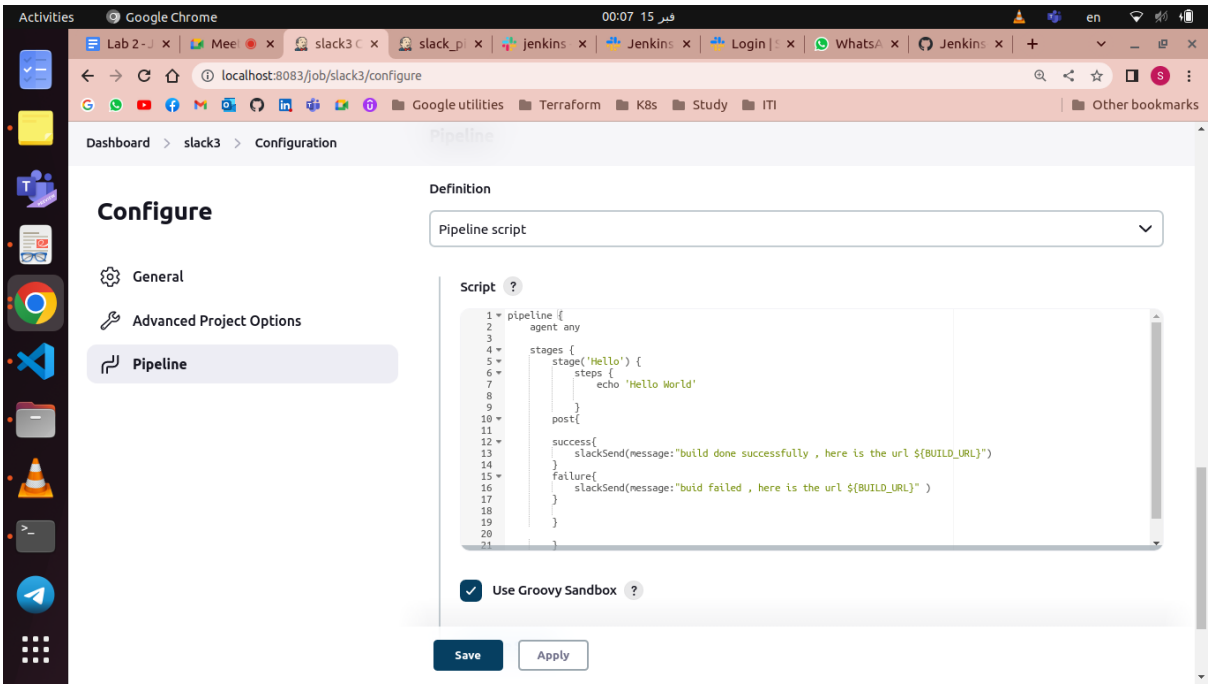
Q4:

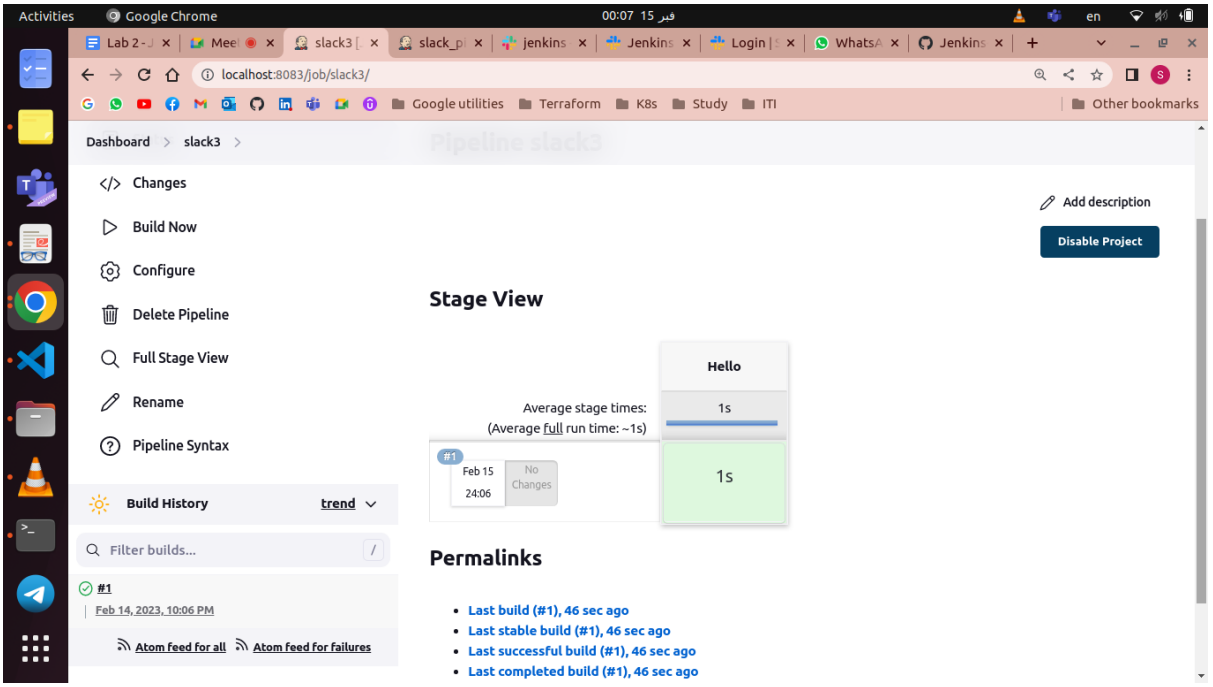

Slack Notification Plugin 631.v40deea_40323b
Integrates Jenkins with Slack, allows publishing build statuses, messages and files to Slack channels.
Report an issue with this plugin

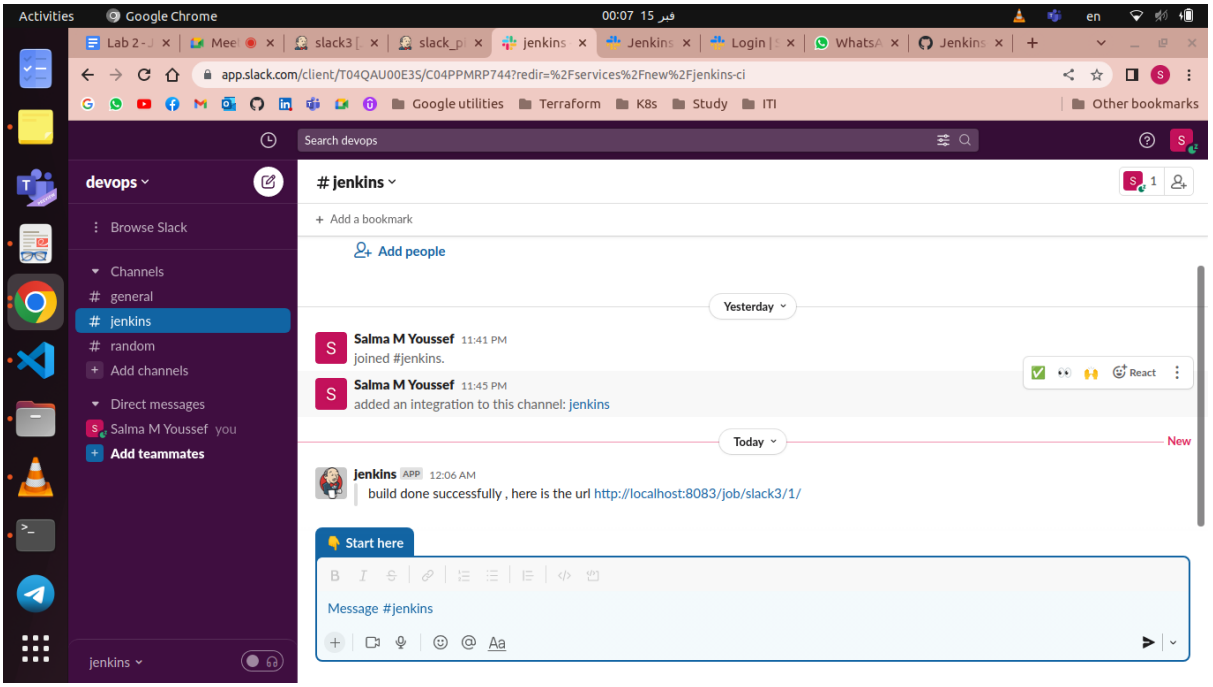
Q5:


Activities
Google Chrome
23:47 14 فبر
en
localhost:8083/manage/credentials/store/system/domain/_/
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Jenkins
Search (CTRL+K)
salma youssef
log out
Dashboard
Manage Jenkins
Credentials
System
Global credentials (unrestricted)
Global credentials (unrestricted)
Add Credentials
Credentials that should be available irrespective of domain specification to requirements matching.
ID
Name
Kind
Description
Jenkins-account
salmamyoussef26/******
Username with password
slack_credentials
slack_credentials
Secret text
Icon: S M L
REST API
Jenkins 2.375.2

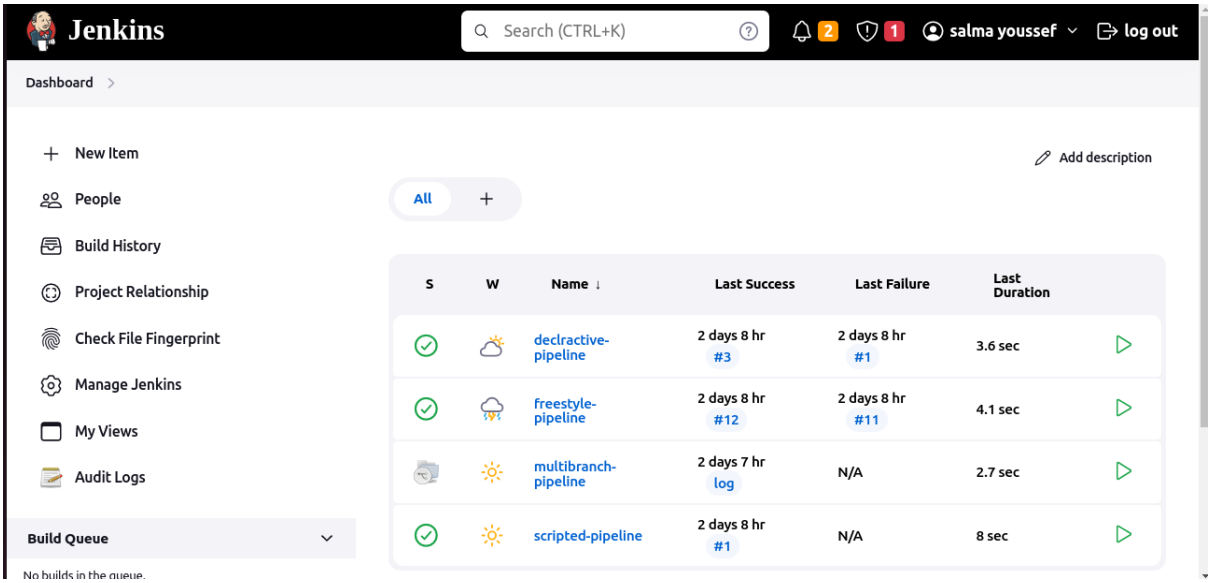

Activities
Google Chrome
23:48 14 قبر
en
localhost:8083/manage/configure
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Dashboard
Manage Jenkins
Configure System
Workspace
devops-5zx9755
Credential
slack_credentials
Add
Default channel / member id
jenkins
Custom slack app bot user
Advanced...
Save
Apply


Activities
Google Chrome
00:07 15 قبر
en
localhost:8083/job/slack3/configure
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Dashboard
slack3
Configuration
Configure
General
Advanced Project Options
Pipeline
Definition
Pipeline script
Script
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}")
}
}
}
Use Groovy Sandbox
Save
Apply

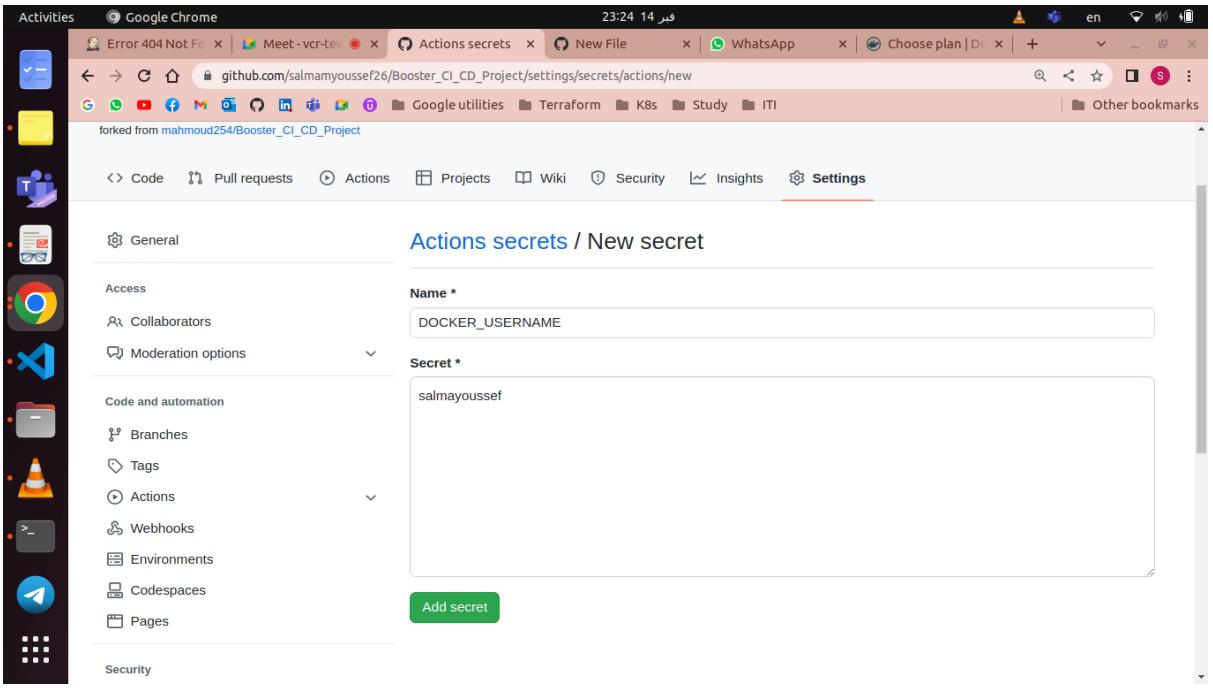

Activities
Google Chrome
localhost:8083/job/slack3/
Dashboard
slack3
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Filter builds...
#1
Feb 14, 2023, 10:06 PM
Atom feed for all
Atom feed for failures
Add description
Disable Project
Stage View
Hello
Average stage times:
(Average full run time: ~1s)
1s
#1
Feb 15
24:06
No Changes
1s
Permalinks
Last build (#1), 46 sec ago
Last stable build (#1), 46 sec ago
Last successful build (#1), 46 sec ago
Last completed build (#1), 46 sec ago

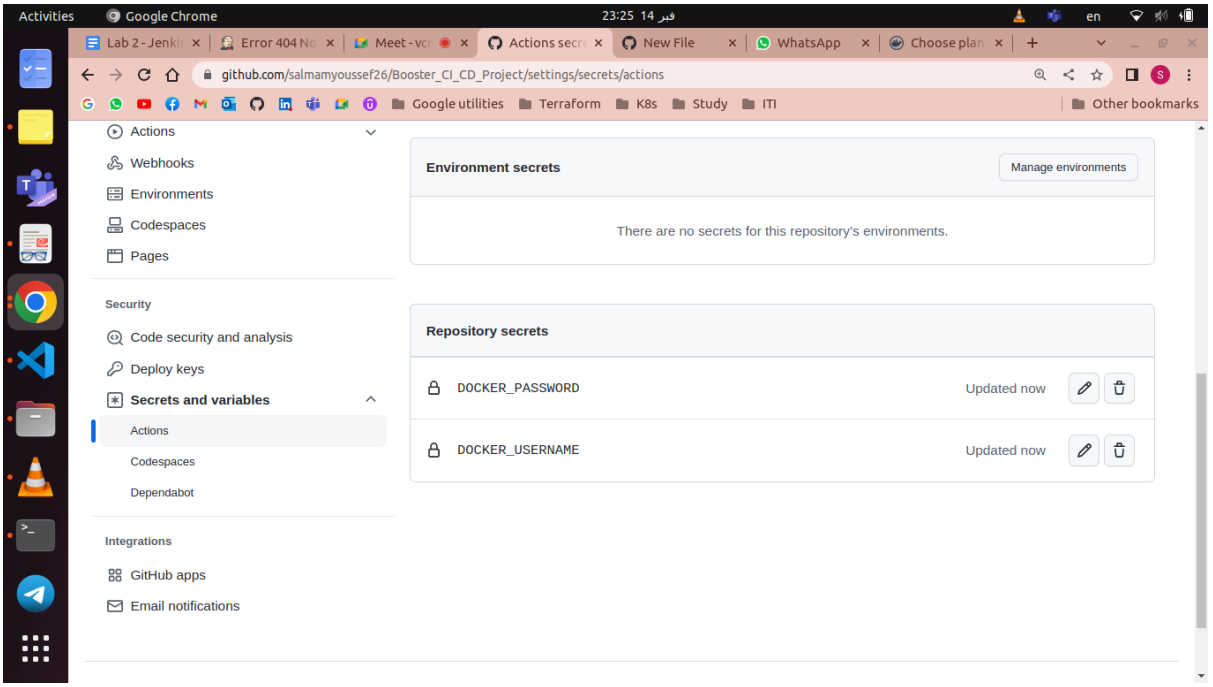

Activities
Google Chrome
app.slack.com/client/T04QAU00E3S/C04PPMRP744?redir=%2Fservices%2Fnew%2Fjenkins-ci
Search devops
devops
Browse Slack
Channels
general
jenkins
random
Add channels
Direct messages
Salma M Youssef you
Add teammates
jenkins
Add a bookmark
Add people
Yesterday
Salma M Youssef 11:41 PM
joined #jenkins.
Salma M Youssef 11:45 PM
added an integration to this channel: jenkins
Today
New
jenkins APP 12:06 AM
build done successfully , here is the url http://localhost:8083/job/slack3/1/
Start here
Message #jenkins

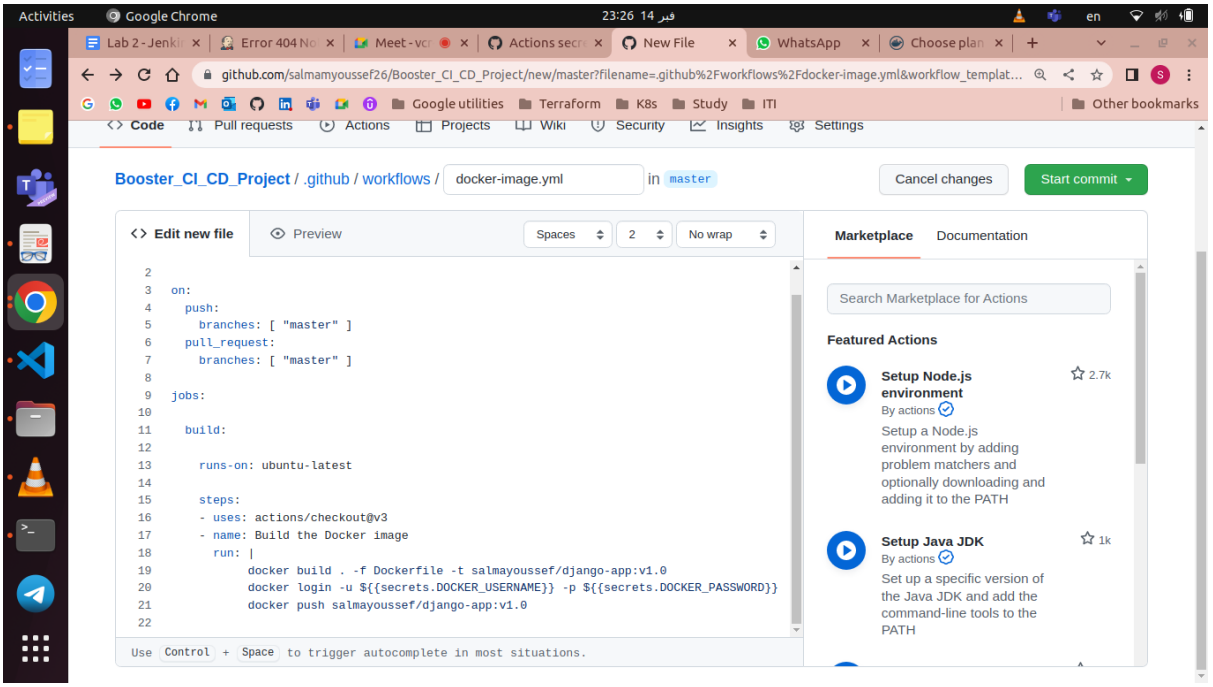
Q6:

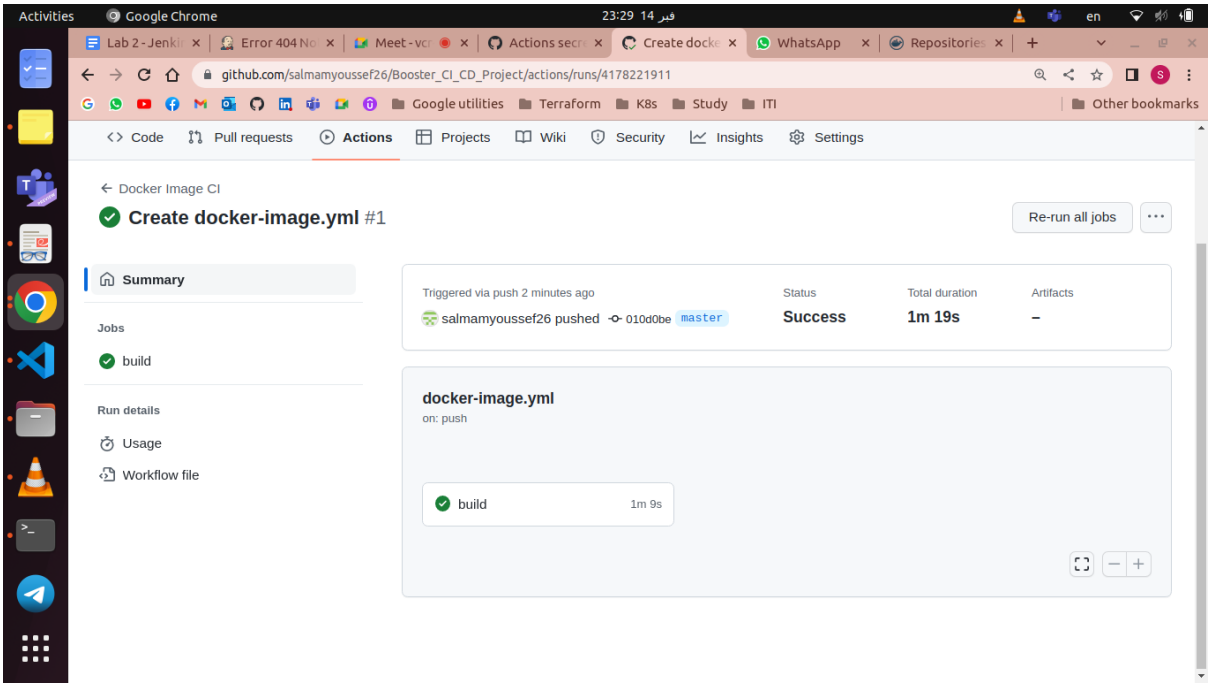

Jenkins
Search (CTRL+K)
salma youssef
log out
Dashboard
New Item
People
Build History
Project Relationship
Check File Fingerprint
Manage Jenkins
My Views
Audit Logs
Build Queue
No builds in the queue.
Add description
All
S
W
Name
Last Success
Last Failure
Last Duration
declractive-pipeline
2 days 8 hr #3
2 days 8 hr #1
3.6 sec
freestyle-pipeline
2 days 8 hr #12
2 days 8 hr #11
4.1 sec
multibranch-pipeline
2 days 7 hr log
N/A
2.7 sec
scripted-pipeline
2 days 8 hr #1
N/A
8 sec

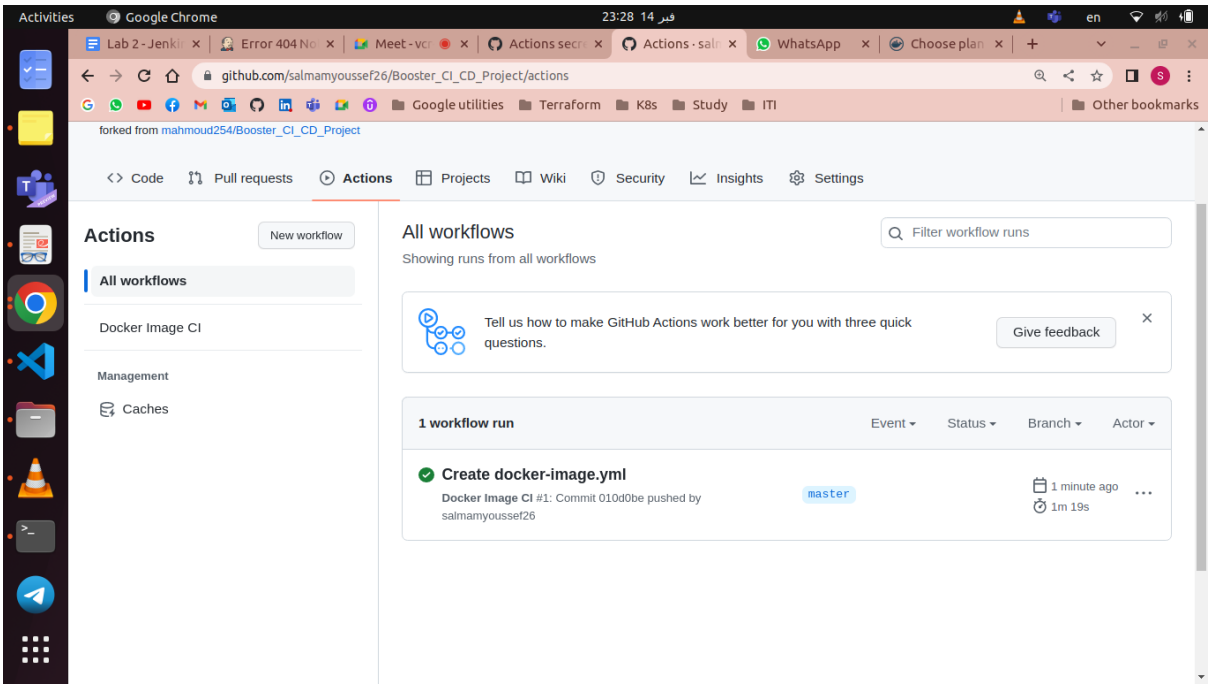
Q7:

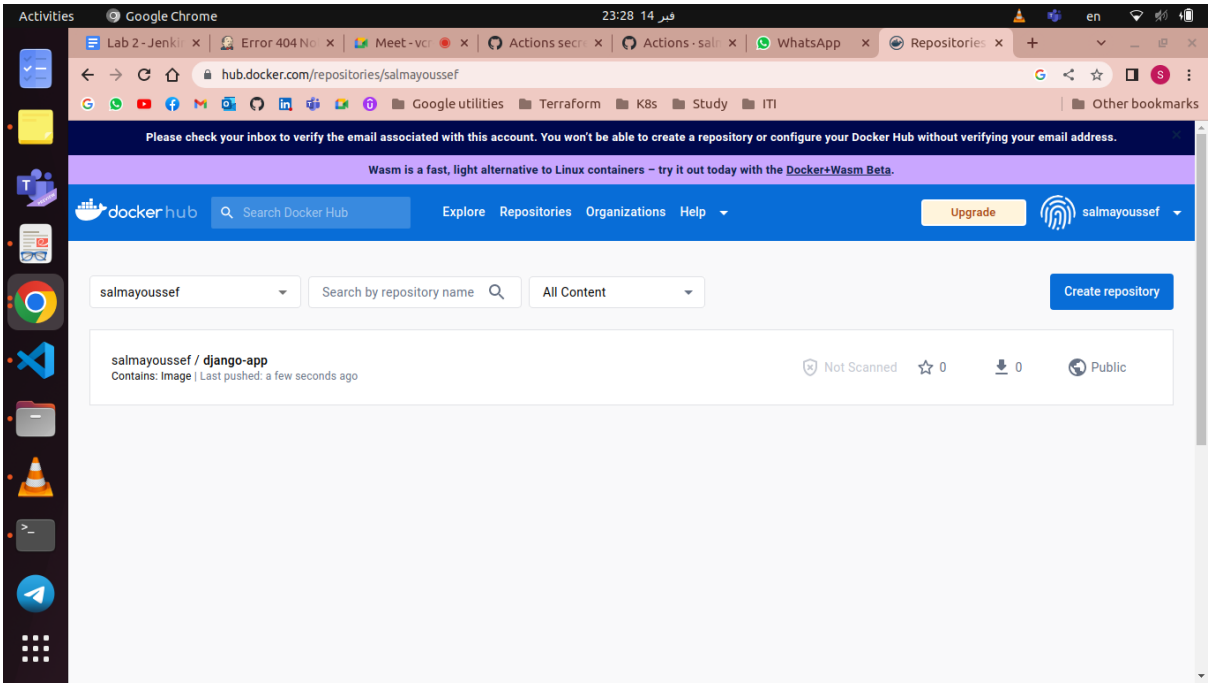

Activities
Google Chrome
Actions secrets
New File
WhatsApp
github.com/salmamyoussef26/Booster_CI_CD_Project/settings/secrets/actions/new
forked from mahmoud254/Booster_CI_CD_Project
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
General
Access
Collaborators
Moderation options
Code and automation
Branches
Tags
Actions
Webhooks
Environments
Codespaces
Pages
Security
Actions secrets / New secret
Name *
DOCKER_USERNAME
Secret *
salmayoussef
Add secret


Activities
Google Chrome
23:25 14 فبر
en
github.com/salmamyoussef26/Booster_CI_CD_Project/settings/secrets/actions
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Actions
Webhooks
Environments
Codespaces
Pages
Security
Code security and analysis
Deploy keys
Secrets and variables
Actions
Codespaces
Dependabot
Integrations
GitHub apps
Email notifications
Environment secrets
Manage environments
There are no secrets for this repository's environments.
Repository secrets
DOCKER_PASSWORD
Updated now
DOCKER_USERNAME
Updated now


Activities
Google Chrome
23:26 14 فبر
en
github.com/salmamyoussef26/Booster_CI_CD_Project/new/master?filename=.github%2Fworkflows%2Fdocker-image.yml&workflow_templat...
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Booster_CI_CD_Project / .github / workflows / docker-image.yml in master
Cancel changes
Start commit
Edit new file
Preview
Spaces
2
No wrap
on:
push:
branches: ["master"]
pull_request:
branches: ["master"]
jobs:
build:
runs-on: ubuntu-latest
steps:
- uses: actions/checkout@v3
- name: Build the Docker image
run: |
docker build . -f Dockerfile -t salmayoussef/django-app:v1.0
docker login -u ${{secrets.DOCKER_USERNAME}} -p ${{secrets.DOCKER_PASSWORD}}
docker push salmayoussef/django-app:v1.0
Use Control + Space to trigger autocomplete in most situations.
Marketplace
Documentation
Search Marketplace for Actions
Featured Actions
Setup Node.js environment
By actions
2.7k
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH
Setup Java JDK
By actions
1k
Set up a specific version of the Java JDK and add the command-line tools to the PATH


Activities
Google Chrome
23:29 14 فبر
en
github.com/salmamyoussef26/Booster_CI_CD_Project/actions/runs/4178221911
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Docker Image CI
Create docker-image.yml #1
Re-run all jobs
Summary
Jobs
build
Run details
Usage
Workflow file
Triggered via push 2 minutes ago
salmamyoussef26 pushed 010d0be master
Status
Success
Total duration
1m 19s
Artifacts
–
docker-image.yml
on: push
build
1m 9s


Activities
Google Chrome
23:28 14 فبر
en
github.com/salmamyoussef26/Booster_CI_CD_Project/actions
forked from mahmoud254/Booster_CI_CD_Project
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Actions
New workflow
All workflows
Docker Image CI
Management
Caches
All workflows
Showing runs from all workflows
Filter workflow runs
Tell us how to make GitHub Actions work better for you with three quick questions.
Give feedback
1 workflow run
Event
Status
Branch
Actor
Create docker-image.yml
Docker Image CI #1: Commit 010d0be pushed by salmamyoussef26
master
1 minute ago
1m 19s


Activities
Google Chrome
23:28 14 فبر
en
Lab 2 - Jenki
Error 404 No
Meet - vcr
Actions secre
Actions · sal
WhatsApp
Repositories
hub.docker.com/repositories/salmayoussef
Google utilities
Terraform
K8s
Study
ITI
Other bookmarks
Please check your inbox to verify the email associated with this account. You won't be able to create a repository or configure your Docker Hub without verifying your email address.
Wasm is a fast, light alternative to Linux containers – try it out today with the Docker+Wasm Beta.
docker hub
Search Docker Hub
Explore
Repositories
Organizations
Help
Upgrade
salmayoussef
salmayoussef
Search by repository name
All Content
Create repository
salmayoussef / django-app
Contains: Image | Last pushed: a few seconds ago
Not Scanned
0
0
Public