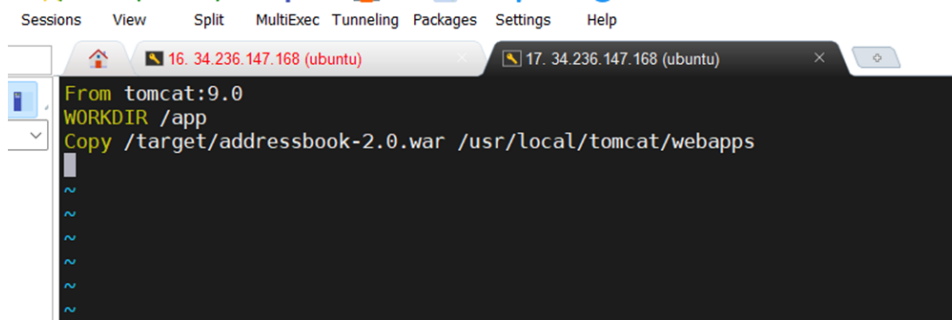


Assignment -1

```
Last login: Tue Jan 23 18:46:03 2024 from 49.36.57.44
ubuntu@ip-172-31-18-21:~$ sudo -i
root@ip-172-31-18-21:~# sudo -i
root@ip-172-31-18-21:~# vi Dockerfile
root@ip-172-31-18-21:~# mkdir Docker.test
root@ip-172-31-18-21:~# cd Docker.test/
root@ip-172-31-18-21:~/Docker.test# git clone https://github.com/vaadin/addressbook.c
Cloning into 'addressbook'...
remote: Enumerating objects: 1077, done.
remote: Total 1077 (delta 0), reused 0 (delta 0), pack-reused 1077
Receiving objects: 100% (1077/1077), 237.50 KiB | 11.88 MiB/s, done.
Resolving deltas: 100% (241/241), done.
root@ip-172-31-18-21:~/Docker.test# ls
addressbook
root@ip-172-31-18-21:~/Docker.test#
```

```
root@ip-172-31-18-21:~/Docker.test# cd addressbook/
root@ip-172-31-18-21:~/Docker.test/addressbook# ls
README.md  addressbook_screenshot.png  pom.xml  src
root@ip-172-31-18-21:~/Docker.test/addressbook# mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.vaadin.tutorial:addressbook >-----
```



```
Sessions View Split MultiExec Tunneling Packages Settings Help
16. 34.236.147.168 (ubuntu) 17. 34.236.147.168 (ubuntu)
From tomcat:9.0
WORKDIR /app
Copy /target/addressbook-2.0.war /usr/local/tomcat/webapps
~
~
~
~
~
```

```
root@ip-172-31-18-21:~# cd Docker.test/
root@ip-172-31-18-21:~/Docker.test# cd addressbook/
root@ip-172-31-18-21:~/Docker.test/addressbook# ls
Dockerfile README.md addressbook_screenshot.png pom.xml src target
root@ip-172-31-18-21:~/Docker.test/addressbook# vi Dockerfile
root@ip-172-31-18-21:~/Docker.test/addressbook# docker build -t somajoshi/newaddressbook .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 29.73MB
Step 1/3 : From tomcat:9.0
----> 2ca29d5b0b76
Step 2/3 : WORKDIR /app
----> Using cache
----> 191eae77292
Step 3/3 : Copy /target/addressbook-2.0.war /usr/local/tomcat/webapps
----> Using cache
----> b10c1a8dd10a
Successfully built b10c1a8dd10a
Successfully tagged somajoshi/newaddressbook:latest
root@ip-172-31-18-21:~/Docker.test/addressbook# docker images
```

```

root@ip-172-31-18-21:~/Docker.test/addressbook/target# cd ..
root@ip-172-31-18-21:~/Docker.test/addressbook# docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
somajoshi/newaddressbook  latest      b10c1a8dd10a     18 hours ago    470MB
<none>               <none>      c24927089eee     19 hours ago    356MB
tomcat               9.0         2ca29d5b0b76     39 hours ago    455MB
debian               latest      a6916e41aa87     13 days ago     117MB
hello-world          latest      d2c94e258dc      8 months ago    13.3kB
tomcat               8.0         ef6a7c98d192     5 years ago     356MB

```

```

root@ip-172-31-18-21:~/Docker.test/addressbook# docker run -d -p 8087:8080 somajoshi/newaddressbook
39da6c26229f4c734ba75b570d2402e3110f05c19be3c9e5984de478b9b2884
root@ip-172-31-18-21:~/Docker.test/addressbook# docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
39da6c26229   somajoshi/newaddressbook  "catalina.sh run"       17 seconds ago  Up 15 seconds  0.0.0.0:8087->8080/tcp, :::8087->8080/tcp  frosty_lovelace
d2d63de1295   somajoshi/newaddressbook  "catalina.sh run"       58 minutes ago  Up 57 minutes  0.0.0.0:8088->8080/tcp, :::8088->8080/tcp  crazy_kowalevski
root@ip-172-31-18-21:~/Docker.test/addressbook#

```

```

root@ip-172-31-18-21:~/Docker.test/addressbook# docker push somajoshi/newaddressbook
Using default tag: latest
The push refers to repository [docker.io/somajoshi/newaddressbook]
8ef75c2dd3de: Mounted from somajoshi/addressbook4
bf3ee817d00b: Mounted from somajoshi/addressbook4
1960c2d0ab03: Mounted from somajoshi/addressbook4
3188359ec748: Mounted from somajoshi/addressbook4
f9eb9a1ec146: Mounted from somajoshi/addressbook4
35114f45a20f: Mounted from somajoshi/addressbook4
d676e29d25eb: Mounted from somajoshi/addressbook4
c67d95bae387: Mounted from somajoshi/addressbook4
d2210512edb4: Mounted from somajoshi/addressbook4
8e87ff28f1b5: Mounted from somajoshi/addressbook4
latest: digest: sha256:dc969f90dc84c05e4e1f744dd356b11672fc6d0afa82cb631337b72aedfefe28 size: 2413
root@ip-172-31-18-21:~/Docker.test/addressbook#

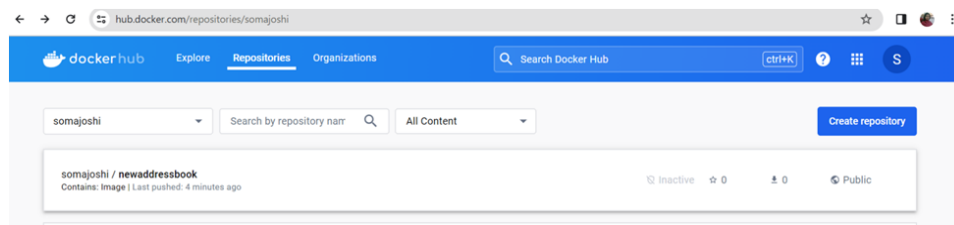
```

```

8e87ff28f1b5: Mounted from somajoshi/addressbook4
latest: digest: sha256:dc969f90dc84c05e4e1f744dd356b11672fc6d0afa82cb631337b72aedfefe28 size: 2413
root@ip-172-31-18-21:~/Docker.test/addressbook# docker login -u somajoshi
Password:
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
root@ip-172-31-18-21:~/Docker.test/addressbook#

```



First Name	Last Name	Email
George	White	george@white.com
Daniel	Thompson	daniel@thompson.com
Timothy	Jones	timothy@jones.com
Peter	Wilson	peter@wilson.com
Dan	Robinson	dan@robinson.com
Dan	Davis	dan@davis.com
Olivia	Davis	olivia@davis.com
Dan	Smith	dan@smith.com
Daniel	Anderson	daniel@anderson.com
Alice	Thomas	alice@thomas.com
Linda	Harris	linda@harris.com
Daniel	Robinson	daniel@robinson.com
Mike	Young	mike@young.com
Umberto	Anderson	umberto@anderson.com
Scott	Thompson	scott@thompson.com

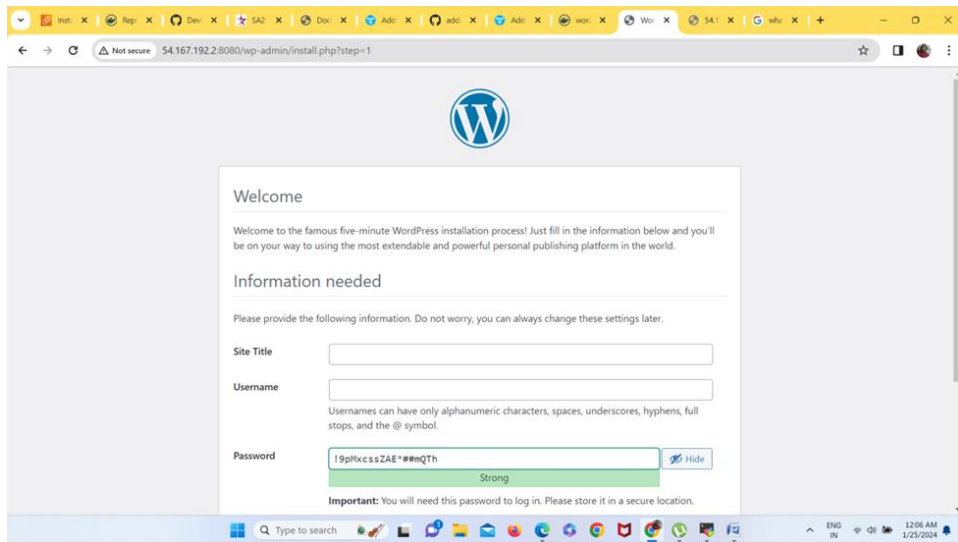
Assignment 2

```
root@ip-172-31-18-21:~/dockercompose# vi docker-compose.yml
root@ip-172-31-18-21:~/dockercompose# cat docker-compose.yml
version: '3.1'

services:
  wordpress:
    image: wordpress
    restart: always
    ports:
      - 8080:80
    environment:
      WORDPRESS_DB_HOST: db
      WORDPRESS_DB_USER: exampleuser
      WORDPRESS_DB_PASSWORD: examplepass
      WORDPRESS_DB_NAME: exampledb
    volumes:
      - wordpress:/var/www/html

  db:
    image: mysql:8.0
    restart: always
    environment:
      MYSQL_DATABASE: exampledb
      MYSQL_USER: exampleuser
      MYSQL_PASSWORD: examplepass
      MYSQL_RANDOM_ROOT_PASSWORD: '1'
    volumes:
      - db:/var/lib/mysql

volumes:
  wordpress:
  db:
root@ip-172-31-18-21:~/dockercompose# docker compose up
[+] Running 3/3
✔ wordpress 21 layers [#####] 0B/0B Pulled
✔ 2f44b7a888fa Pull complete
```

```
398a2/d452a4 wordpress "docker-entrypoint.s..." 49 minutes ago Up 49 minutes 0.0.0.0:8080->80/tcp, :::8080->80/tcp doc
0b4598fe899f mysql:8.0 "docker-entrypoint.s..." 49 minutes ago Up 49 minutes 3306/tcp, 33060/tcp doc
root@ip-172-31-37-2:~# docker compose down
[+] Running 3/3
✓ Container root-dbserv1-1 Removed
✓ Container root-webserv1-1 Removed
✓ Network root_default Removed
root@ip-172-31-37-2:~#
```

```
root@ip-172-31-37-2:~# docker compose ps
NAME IMAGE COMMAND SERVICE CREATED STATUS PORTS
root@ip-172-31-37-2:~#
```

Assignment 3

```
root@ip-172-31-37-2:~/new/demo2# ls
Dockerfile mvnw mvnw.cmd pom.xml src target
root@ip-172-31-37-2:~/new/demo2# cd src/main/resources/static/
root@ip-172-31-37-2:~/new/demo2/src/main/resources/static# ls
index.html
root@ip-172-31-37-2:~/new/demo2/src/main/resources/static# cat index.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>This is springboot Application</title>
</head>
<body>

</body>
```

```
</html>root@ip-172-31-37-2:~/new/demo2/src/main/resources/static# cd ../../../../
root@ip-172-31-37-2:~/new/demo2/src# cd ..
root@ip-172-31-37-2:~/new/demo2# ls
Dockerfile mvnw mvnw.cmd pom.xml src target
root@ip-172-31-37-2:~/new/demo2# cat Dockerfile
FROM openjdk:17
VOLUME /tmp
EXPOSE 8080
ARG JAR_FILE=target/demo2-0.0.1-SNAPSHOT.jar
ADD ${JAR_FILE} app.jar
ENTRYPOINT ["java","-jar","/app.jar"]
root@ip-172-31-37-2:~/new/demo2#
```

```

root@ip-172-31-37-22:~/new/demo2# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                                NAMES
5b38a75c866   somajoshi/springboot:1.0           "java -jar /app.jar"    2 minutes ago Up 2 minutes   0.0.0.0:8089->8080/tcp, :::8089->8080/tcp   laughing_n_
bel

root@ip-172-31-37-22:~/new/demo2# docker push somajoshi/springboot:1.0
The push refers to repository [docker.io/somajoshi/springboot]
5b38a75c866: Pushed
d9c93d8b576: Mounted from library/openjdk
27ee19dc88f2: Mounted from library/openjdk
c8dd97366670: Mounted from library/openjdk
1.0: digest: sha256:a8c2a599a3f8a60e41c8b0fd15e0103dc2f577f81f12900ce7edf1e2d7255b size: 1166
root@ip-172-31-37-22:~/new/demo2#

```

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Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

somajoshi /.springboot

Description

This repository does not have a description

Last pushed: 3 minutes ago

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
1.0		Image	---	4 minutes ago

Docker commands

To push a new image to Docker Hub

```
docker push somajoshi/springboot:1.0
```

Automated builds

Manually push your code to Bitbucket to build and push to Docker Hub

Available with [automated builds](#)



```

ubuntu@ip-172-31-37-2:~$ docker volume create data
data
ubuntu@ip-172-31-37-2:~$ docker volume ls
DRIVER      VOLUME NAME
local       data
local       dockercompose_db
local       dockercompose_wordpress
local       unbuntuvolume
local       volume1
local       volume2
local       volume4
local       volume-2
ubuntu@ip-172-31-37-2:~$ docker inspect data
[
  {
    "CreatedAt": "2024-01-26T06:13:38Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/data/_data",
    "Name": "data",
    "Options": null,
    "Scope": "local"
  }
]
ubuntu@ip-172-31-37-2:~$

```

```

root@ip-172-31-37-2:~# cd /var/lib/docker/volumes/
root@ip-172-31-37-2:/var/lib/docker/volumes# ls
dockercompose_db  dockercompose_wordpress  metadata.db  unbuntuvolume  volume-2  volume1  volume4
root@ip-172-31-37-2:/var/lib/docker/volumes# cd data
root@ip-172-31-37-2:/var/lib/docker/volumes/data# ls
data
root@ip-172-31-37-2:/var/lib/docker/volumes/data# cd data/
root@ip-172-31-37-2:/var/lib/docker/volumes/data/data# docker run -it centos bash
[root@953fb2c56a9 /]# ls
bin  dev  etc  home  lib  lib64  lost+found  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
[root@953fb2c56a9 /]# exit
exit
root@ip-172-31-37-2:/var/lib/docker/volumes/data/data# docker run -it --mount source=data,destination=/data centos bash
[root@ce0d9a463b11 /]# ls
bin  data  dev  etc  home  lib  lib64  lost+found  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
[root@ce0d9a463b11 /]# cd data/
[root@ce0d9a463b11 data]# echo "rec1" >> file1.txt
[root@ce0d9a463b11 data]# echo "rec2" >> container.txt
[root@ce0d9a463b11 data]# ls
container.txt  file1.txt
[root@ce0d9a463b11 data]# exit
exit
root@ip-172-31-37-2:/var/lib/docker/volumes/data/data# pwd
/var/lib/docker/volumes/data/_data
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# ls
container.txt  file1.txt
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
ce0d9a463b11   centos    "bash"                  5 minutes ago   Exited (0) 2 minutes ago           file
953fb2c56a9    centos    "bash"                  8 minutes ago   Exited (0) 7 minutes ago           dbh
1033996981e    centos    "bash"                  31 minutes ago   Created                                   vig
4d98a4e8d88    ubuntu   "/bin/bash"             8 hours ago     Exited (0) 8 hours ago           rec
dursing_wetlner 953fb2c56a9 centos    "/bin/bash"     9 hours ago     Exited (0) 8 hours ago           pri
celess_swanson  ce176c10f50 alpine     "/bin/sh"        9 hours ago     Exited (0) 9 hours ago           cbj
active_model     7f1b13c7bd2a ubuntu    "/bin/bash"      9 hours ago     Exited (0) 9 hours ago           thli

```

```

root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# docker rm ce0d9a463b11
ce0d9a463b11
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# ls
container.txt  file1.txt
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data#

```

```

root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# docker rm ce0d9a463b11
ce0d9a463b11
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# ls
container.txt  file1.txt
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# cd /
root@ip-172-31-37-2:/# cd ~
root@ip-172-31-37-2:~# cd /var/lib/docker/volumes/data/_data
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# ls
container.txt  file1.txt
root@ip-172-31-37-2:/var/lib/docker/volumes/data/_data# cd ~
root@ip-172-31-37-2:~#

```