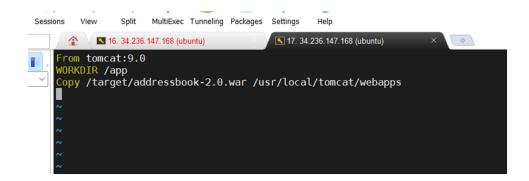
Assignment -1

```
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:~$ wto Dockerfile
root@ip-172-31-18-21:~$ mkdir Docker.test
root@ip-172-31-18-21:~$ do Docker.test/
root@ip-172-31-18-21:~$ cot Docker.test/
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# 

Addressbook
root@ip-172-31-18-21:~$/Docker.test# cd addressbook/
root@ip-172-31-18-21:~$/Docker.test# cd addressbook/
root@ip-172-31-18-21:~$/Docker.test# docker.test# second@ip-172-31-18-21:~$/Docker.test# ls
addressbook
root@ip-172-31-18-21:~$/Docker.test# cd addressbook/
root@ip-172-31-18-21:~$/Docker.test# docker.test# second@ip-172-31-18-21:~$/Docker.test# ls
addressbook
root@ip-172-31-18-21:~$/Docker.test# ls
addressbook second@ip-172-31-18-21:~$/Docker.test# ls
```



```
root@ip-1/2-31-18-21:~/Docker.test/addressbook/target# cd ..
root@ip-172-31-18-21:~/Docker.test/addressbook# docker images
REPOSITORY
                                TAG
                                           IMAGE ID
                                                              CREATED
                                                                                SIZE
somajoshi/newaddressbook
                                                              18 hours ago
                                latest
                                           b10c1a8dd10a
                                                                                470MB
                                                              19 hours ago
                                                                                356MB
<none>
                                <none>
                                           c24927089eee
tomcat
                                9.0
                                            2ca29d5b0b76
                                                              39 hours ago
                                                                                455MB
debian
                                latest
                                            a6916e41aa87
                                                              13 days ago
                                                                                117MB
                                            d2c94e258dcb
                                                              8 months ago
                                                                                13.3kB
hello-world
                                latest
                                            ef6a7c98d192
                                                              5 years ago
                                                                                356MB
tomcat
                                8.0
```

```
      notBip-172-31-18-21:-/Docker.test/addressbook# docker run -d -p 8087:8080 somajoshi/newaddressbook

      193dace2629fic(73-Hba7857062480-8110F05284 docker)

      NotBip-172-31-18-21:-/Docker test/addressbook# docker ps

      CMFAINER ID IMAGE

      SMADULT IN IMAGE

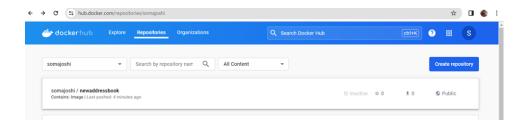
      COMPANIO

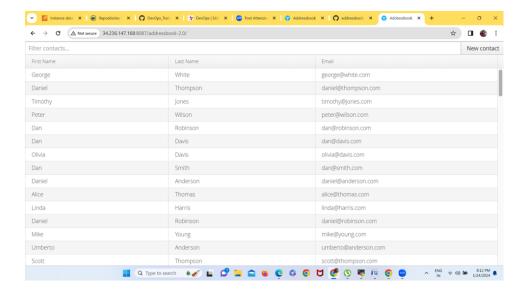
      17 seconds ago
      Up 15 seconds
      6.0.0.08887->8880/tcp, :::8887->8880/tcp
      frosty_lovelace

      CHZOBS/061295
      somajoshi/newaddressbook
      "catal ina.sh run"
      17 seconds ago
      Up 57 minutes
      6.0.0.08888->8880/tcp, :::8887->8880/tcp
      rczy_Kowalevski
```

```
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
6969a9e146: Mounted from somajoshi/addressbook4
35114f45a20f: Mounted from somajoshi/addressbook4
6676e29d25eb: Mounted from somajoshi/addressbook4
6676e29d25eb: 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:dc969f90dc8dc05e4e1f744dd356b11672fc6d0afa82cb631337b72aedfefe28 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#
```

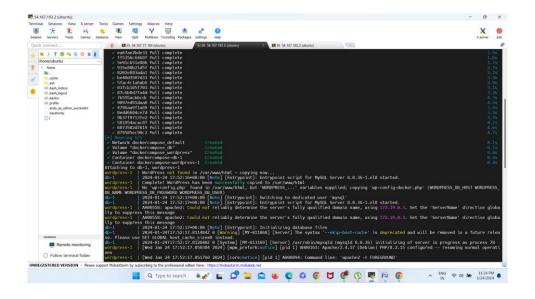


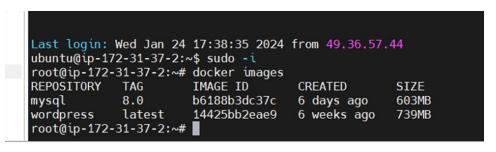


Assignment 2

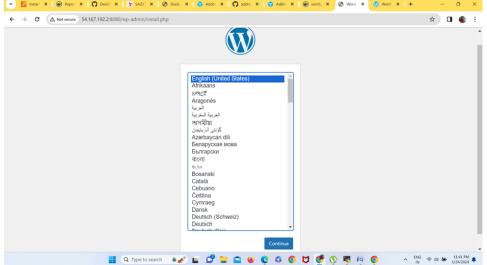
```
root@ip-172-31-18-21:~/dockercompose# vi docker-compose.yml
root@ip-172-31-18-21:~/dockercompose# cat docker-compose.yml
/ersion: '3.1'
services:
  wordpress:
       image: wordpress
restart: always
      ports:
- 8080:80
      - 3030.30
environment:
WORDPRESS_DB_HOST: db
WORDPRESS_DB_USER: exampleuser
WORDPRESS_DB_NAME: examplepass
WORDPRESS_DB_NAME: exampledb
      volumes:
- wordpress:/var/www/html
   db:
      o:
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:
oot@ip-172-31-18-21:~/dockercompose# docker compose up
    | Running 34/34
wordpress 21 layers [###########################

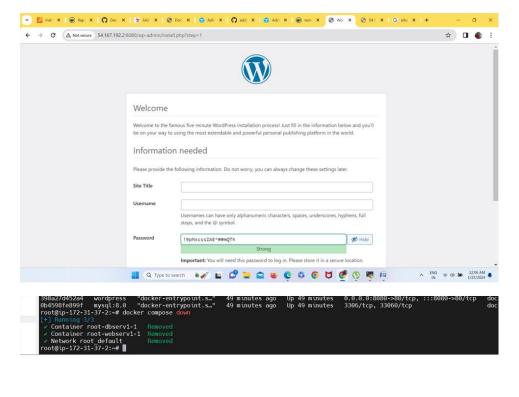
✓ 2f44b7a888fa Pull complete
                                                                                                         0B/0B
                                                                                                                                Pulled
```











```
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/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>
<html>
<html>
sis springboot Application</tibe>
</itle>This is springboot Application</tibe>
</head>
</bd>
</bd>
</br>

</body>
</body>
</body>
</br>

</body>

</body>
</body>
</body>

</body>

</body>

</body>

</body>

</body>

</body>

</body>

</body>

</body>

</body>
```

```
uild an image from a Dockerfile
oot@ip-172-31-37-2:√new/demo2# docker build -t somajoshi/springboot:1.0 .
EPRECATED: The legacy builder is <mark>deprecated</mark> and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/
 https://docs.docker.com/go/buildx/

nding build context to Docker daemon 45.37MB
ep 1/6: FROM openjdk:17
->> 5c28ba2b4cdb
ep 2/6: VOLUME /tmp
->> Running in 79ae6e7fid1a
moving intermediate container 79ae6e7fid1a
->> 61899gc.cbb7
ep 3/6: EXPOSE 8080
->> Running in 6496cbe1ab18
moving intermediate container 0496cbe1ab18
->> aa093ef258f4
->> Running in 6496cbe1ab18
moving intermediate container 6496cbe1ab18
->> aa093ef258f4
->> erlanning in 6496de7ea63
moving intermediate container cbe94de7ea63
->> erlar6ad2712
ep 5/6: AND ${JAR_FILE=target/demo2-0.0.1-SNAPSHOT.jar
->> Running in 6496de7ea63
moving intermediate container cbe94de7ea63
->> erlar6ad2712
ep 5/6: AND ${JAR_FILE} app.jar
->> dddfca98d9be
ep 6/6: ENRTRYPOINT ["java","-jar","/app.jar"]
->> Running in 876dd3b6d93b
->> 2fcblc07lb55
ccessfully built 2fcblc07lb55
ccessfully built 2fcblc07lb55
ccessfully tagged somajoshi/springboot:1.0
ot@ip-172-31-37-2:~/new/demo2# docker run -d -p 8089:8080 somajoshi/springboot:1.0
ot@ip-172-31-37-2:~/new/demo2# docker run -d -p 8089:8080 somajoshi/springboot:1.0
                          IMAGE COMMAND CREATED STATUS PORTS NAMES 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_r
                                  repostury;
d
ed from library/openjdk
ed from library/openjdk
ed from library/openjdk
--Br2a599a3f8n60e41c8b0fd15e01030dc2f577f81f112900ce7edf1e2d7255b size: 1166
          somajoshi / Repositories / springboot / General
          General
                                  Tags
                                                      Builds
                                                                              Collaborators Webhooks Settings
             (i) 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
                                                                                                                                                                                                                                                               Docker co
                                                                                                                                                                                                                                                                To push a ne
                Description
                This repository does not have a description 🧪
                                                                                                                                                                                                                                                                  docker p
                ( Last pushed: 3 minutes ago
                Tags
                                                                                                                                                                                                                                                                 Automate
                This repository contains 2 tag(s).
                                                                                                                                                                                                                                                                Manually pr
                                                                                                                                                                                                                                                                Bitbucket to
                   Tag
                                                                                        Type
                                                                                                                                                      Pulled
                                                                                                                                                                                                                         Pushed
                                                                                                                                                                                                                                                                code is upd
                                                                                       Image
                                                                                                                                                                                                           4 minutes ago
                                                                                                                                                                                                                                                                Available w
                                                                                                                                                                                                                                                                automated
       This is springboot Application
```

Assignment 4

```
ubuntu@ip-172-31-37-2:~$ docker volume create data
 ubuntu@ip-172-31-37-2:~$ docker volume ls
 DRIVER
             VOLUME NAME
 local
             data
 local
             dockercompose db
 local
             dockercompose_wordpress
             unbuntuvolume
 local
 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:~$
 X @
X server Ext
                  to

#Bg-172-31-37-22/var/flb/docker/volumes/data# cd_data/
#Bg-172-31-37-22/var/flb/docker/volumes/data# dd_data# docker run -it centos bash

orgos/1810-52-630-0/ Pls

dev etc home flb flb64 lost=found media mnt opt proc root run shin srv sys tmp usr var-

orgos/1820-52-60-0/ Ple citt
                   31 minutes ago Created
    Remote monitoring
   Follow terminal folder
            ons View Split MultiExec Tunneling Packages Settings Help
 ♠ S 6. 54.163.204.116 (ubuntu)
                                            7. 35.171.86.52 (ubuntu)
                                                                             X
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#
Sessions View Split MultiExec Lunneling Packages Settings Help
     7. 35.171.86.52 (ubuntu)
   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:~# ■
```

Assignment 3