Assignments Containerization, Docker, and Docker Hub:

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L3 - Demonstrate Docker Compose using the Application Image and MySQL Image to start and stop all container services

Step1 installing docker compose using command

Apt install docker-compose -y

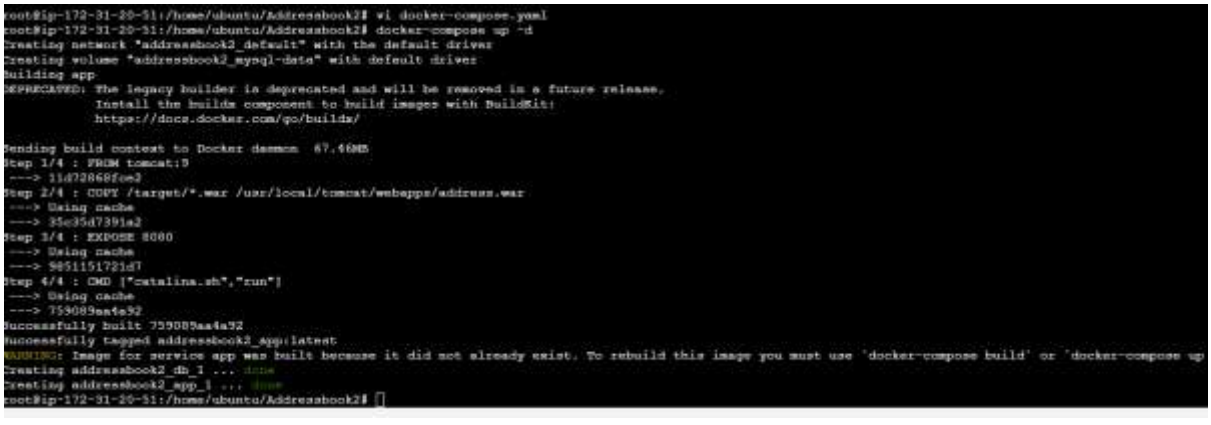
Created the .yaml file in ec2 ubuntu instance

Vi docker-compose.yaml

```yaml
version: '3'

services:
  app:
    build: .
    ports:
      - "3000:3000"
    environment:
      - MYSQL_HOST=db
      - MYSQL_USER=myapp
      - MYSQL_PASSWORD=mypassword
      - MYSQL_DATABASE=myapp
    depends_on:
      - db

  db:
    image: mysql:5.7
    environment:
      - MYSQL_ROOT_PASSWORD=mysqlpassword
      - MYSQL_USER=myapp
      - MYSQL_PASSWORD=mypassword
      - MYSQL_DATABASE=myapp
    volumes:
      - mysql-data:/var/lib/mysql

volumes:
  mysql-data:
~
~
~
~
```

Used the command to start services

docker-compose up -d



Verified the container status using

docker-compose ps

```
root@ip-172-31-20-51:/home/ubuntu/Addressbook2# docker-compose ps
      Name                     Command               State                         Ports
-------------------------------------------------------------------------------------------------------------
addressbook2_app_1   catalina.sh run                  Up      0.0.0.0:3000->3000/tcp,:::3000->3000/tcp, 8080/tcp
addressbook2_db_1    docker-entrypoint.sh mysqld      Up      3306/tcp, 33060/tcp
root@ip-172-31-20-51:/home/ubuntu/Addressbook2#
```

Stopped the container using command

docker-compose down

```
root@ip-172-31-20-51:/home/ubuntu/Addressbook2# docker-compose down
Stopping addressbook2_app_1 ... done
Stopping addressbook2_db_1  ... done
Removing addressbook2_app_1 ... done
Removing addressbook2_db_1  ... done
Removing network addressbook2_default
root@ip-172-31-20-51:/home/ubuntu/Addressbook2#
```

```
root@ip-172-31-20-51:/home/ubuntu/Addressbook2# docker-compose down
Stopping addressbook2_app_1 ... done
Stopping addressbook2_db_1  ... done
Removing addressbook2_app_1 ... done
Removing addressbook2_db_1  ... done
Removing network addressbook2_default
root@ip-172-31-20-51:/home/ubuntu/Addressbook2# docker-compose ps
Name   Command   State   Ports
------------------------------
```