



COMSATS University Islamabad

Attock Campus

Program: BS/SE

Spring 2024

TICS

Assignment 2

April 02, 2024

Total Marks: (25)
Due Date: 02/04/2024

Assignment No. 2

Task:

Task: Deploying a WordPress Application with MySQL using Docker Compose.

Step by Step Instructions:

1. Create a new directory for your project:

```
mkdir mywordpress  
cd mywordpress
```

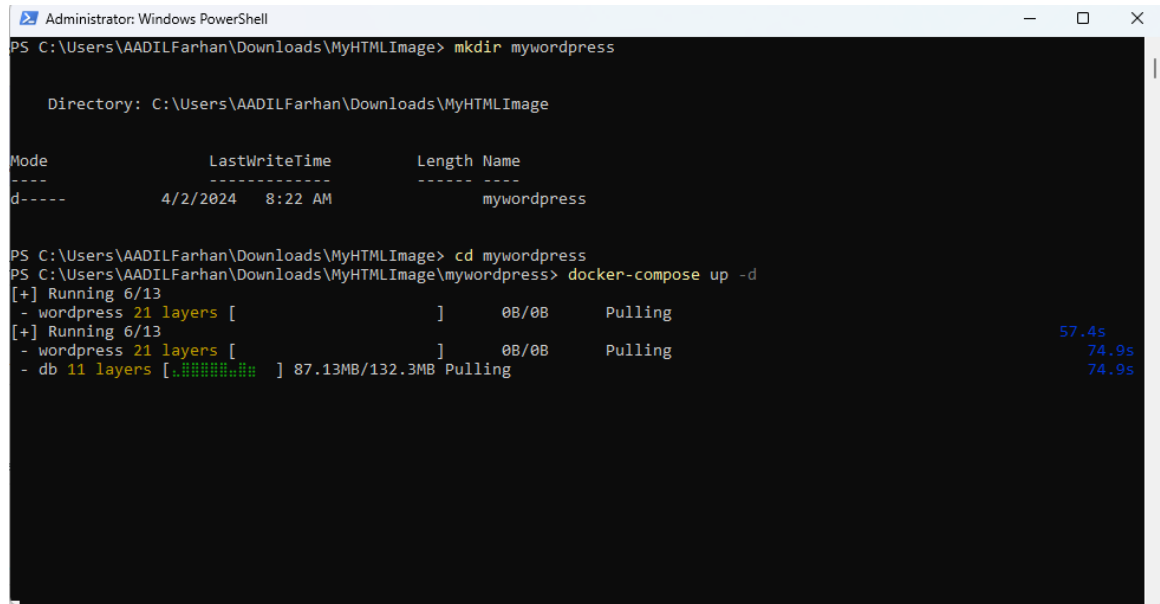
2. Create a docker-compose.yml file with the following content:

```
version: '3'  
services:  
  db:  
    image: mysql:5.7  
    volumes:  
      - db_data:/var/lib/mysql  
    environment:  
      MYSQL_ROOT_PASSWORD: your_mysql_root_password  
  wordpress:  
    image: wordpress:latest  
    ports:  
      - 8080:80  
    volumes:  
      - wp_data:/var/www/html  
    environment:  
      WORDPRESS_DB_HOST: db  
      WORDPRESS_DB_USER: wordpress  
      WORDPRESS_DB_PASSWORD: your_wordpress_db_password  
      WORDPRESS_DB_NAME: wordpress  
volumes:  
  db_data:  
  wp_data:
```

#Please make sure to replace **your_mysql_root_password** and
#**your_wordpress_db_password** with your desired passwords for MySQL and
#the WordPress database, respectively.

3. Save the docker-compose.yml file.
4. Run the following command to start the WordPress application:

```
docker-compose up -d
```
5. Wait for a few moments to allow the containers to start up.



```
Administrator: Windows PowerShell
PS C:\Users\AADILFarhan\Downloads\MyHTMLImage> mkdir mywordpress

Directory: C:\Users\AADILFarhan\Downloads\MyHTMLImage

Mode                LastWriteTime         Length Name
----                -
d-----          4/2/2024   8:22 AM             mywordpress

PS C:\Users\AADILFarhan\Downloads\MyHTMLImage> cd mywordpress
PS C:\Users\AADILFarhan\Downloads\MyHTMLImage\mywordpress> docker-compose up -d
[+] Running 6/13
  - wordpress 21 layers [          ]   0B/0B   Pulling
[+] Running 6/13
  - wordpress 21 layers [          ]   0B/0B   Pulling
  - db 11 layers [#####] 87.13MB/132.3MB Pulling
```

6. Open your web browser and visit <http://localhost:8080>. You should see the WordPress installation page.
7. Follow the on-screen instructions to complete the WordPress installation. Provide the necessary information such as site title, username, password, and email.
8. Once the installation is complete, you can access your WordPress site by visiting <http://localhost:8080> in your web browser.

Answer following questions:

As part of our learning exercise, I would like each of you to create a complete step-by-step tutorial with screenshots documenting the process you followed to deploy a WordPress application with MySQL using Docker Compose. Please include detailed instructions, along with relevant screenshots, for each step of the process. Your tutorial should be beginner-friendly and easy to follow.

Please make sure to cover the following aspects in your tutorial:

- Setting up the project directory and creating the docker-compose.yml file.
- Running the Docker Compose command to start the WordPress application.
- Accessing the WordPress installation page in a web browser.
- Completing the WordPress installation process.

- Verifying the successful deployment of the WordPress application.

Feel free to use any screenshot capturing tool or utility to capture the screenshots.

Remember to include clear and concise instructions, as well as accurate and properly labeled screenshots.

Once you have completed your tutorial, please submit it in MS word format at my email, (Farhan.aadil@cuiatk.edu.pk) with email subject “**SP24-DevOps-Assignment2- <Your Reg Number>**” .