**COMSATS UNIVERSITY ISLAMABAD ATTOCK CAMPUS**

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**DEPARTMENT OF COMPUTER SCIENCE**

**LAB TASK**

**Objective:**

This task Deploying a WordPress Application with MySQL using Docker Compose.

**Activity Outcomes:**

On completion of this lab students will be able to connect the wordpress application with database with the help of docker.

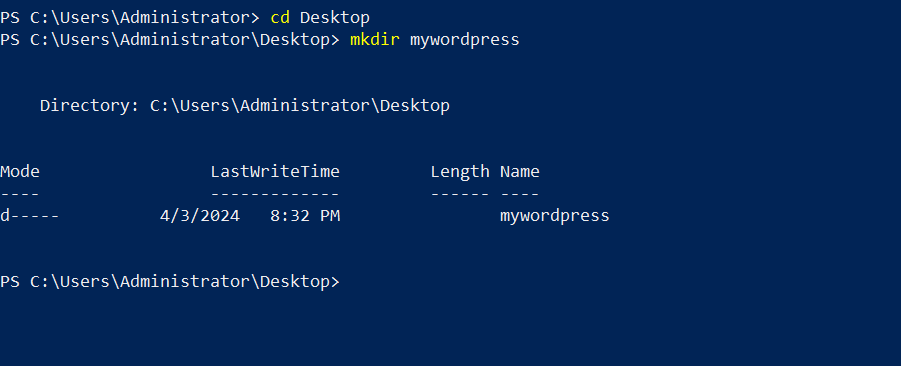
**Useful Concepts:**

1. Docker containerization ensures consistent deployment by encapsulating WordPress and its dependencies in isolated environments.
2. Docker Compose simplifies the management of multi-container WordPress applications, enabling easy starting and stopping with a single command

**Activity:**

For performing this task

1. First create the directory by the running command:“ mkdir directory\_name”.  
   (In any shell your system).



1. Now open this folder with any editor you used and create the “docker-compose.yml” file in it copy the given code and paste in the yml file.
2. Save the file.

Code:

version: '3'

services:

  db:

    image: mysql:5.7

    volumes:

      - db\_data:/var/lib/mysql

    environment:

      MYSQL\_ROOT\_PASSWORD: your\_mysql\_root\_password

      MYSQL\_DATABASE: wordpress

      MYSQL\_USER: wordpress

      MYSQL\_PASSWORD: your\_wordpress\_db\_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:

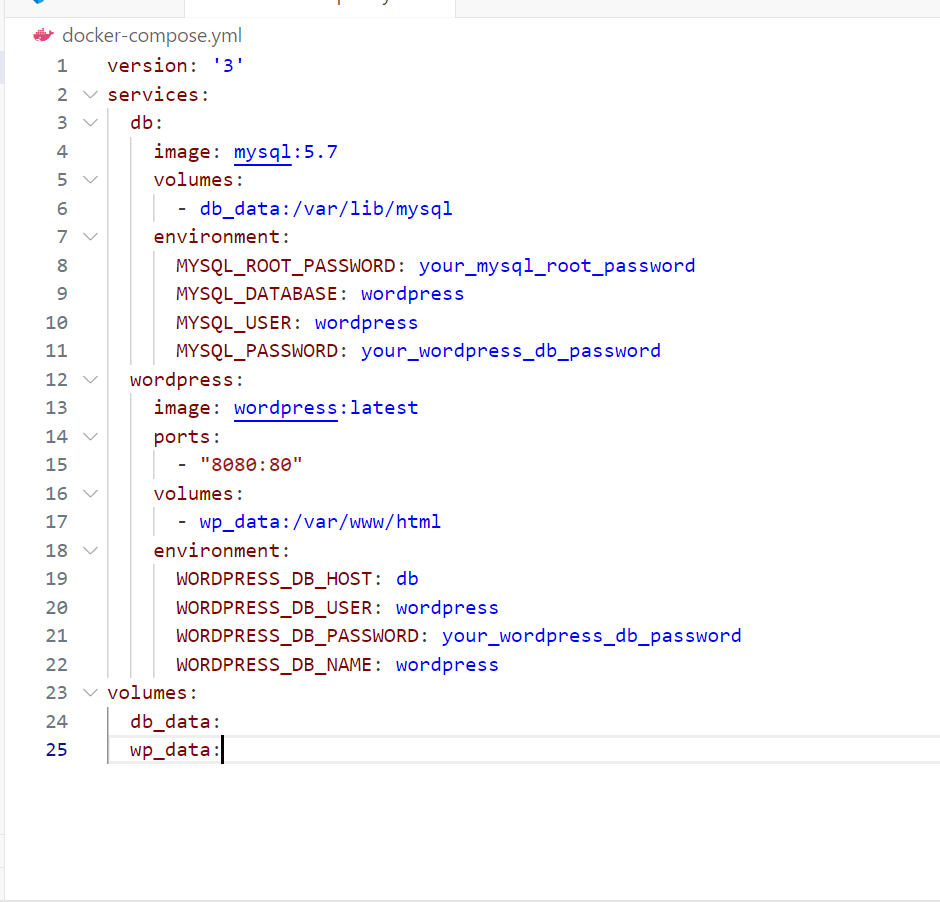
  db\_data:

  wp\_data:

**Note:**

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.

File look as shown below:

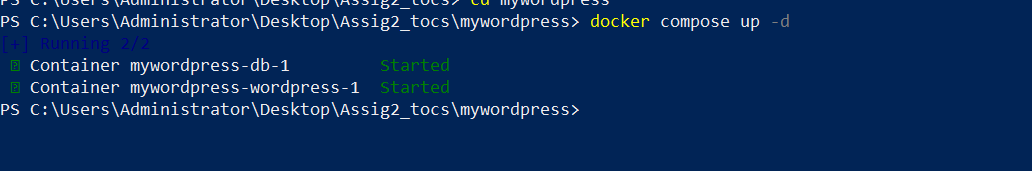


1. Run the following command to start the WordPress application:

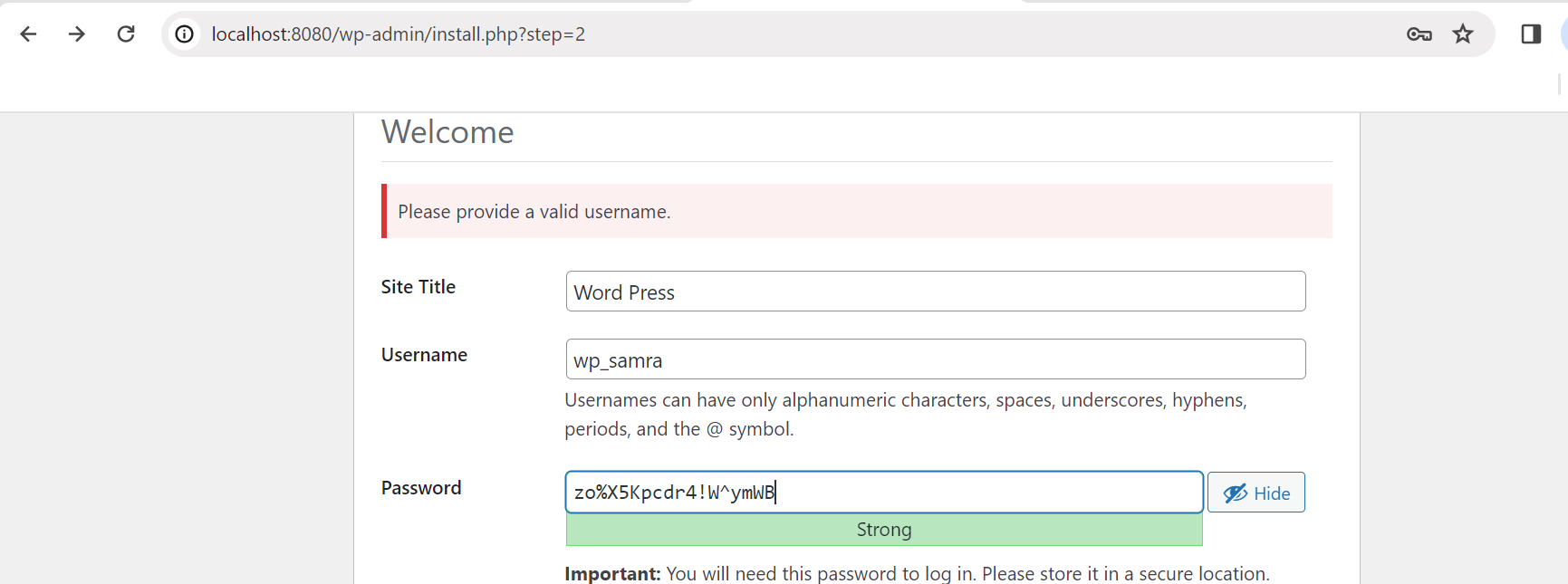
“ docker-compose up -d”

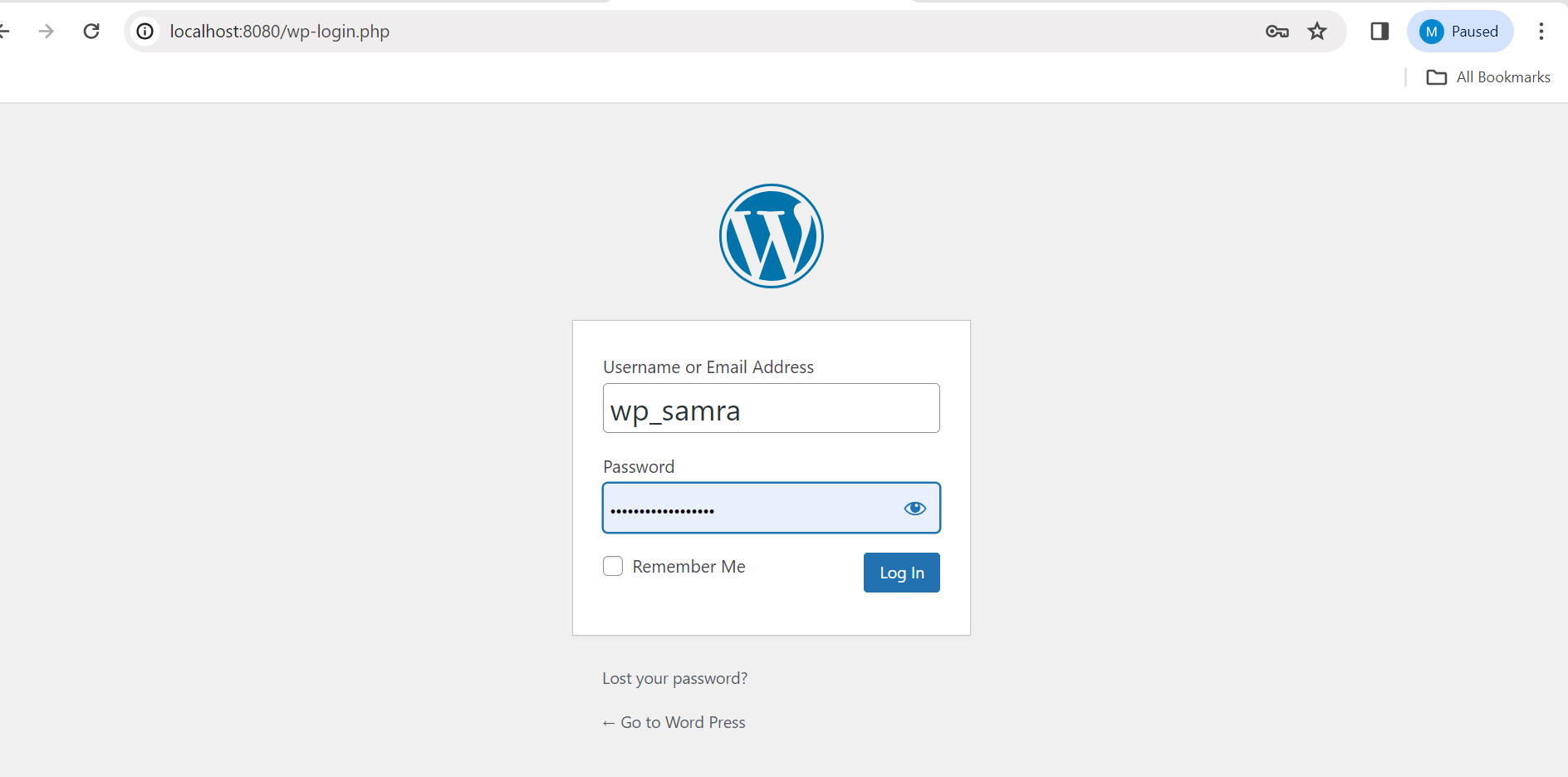
Note: Wait for a few moments to allow the containers to start up.

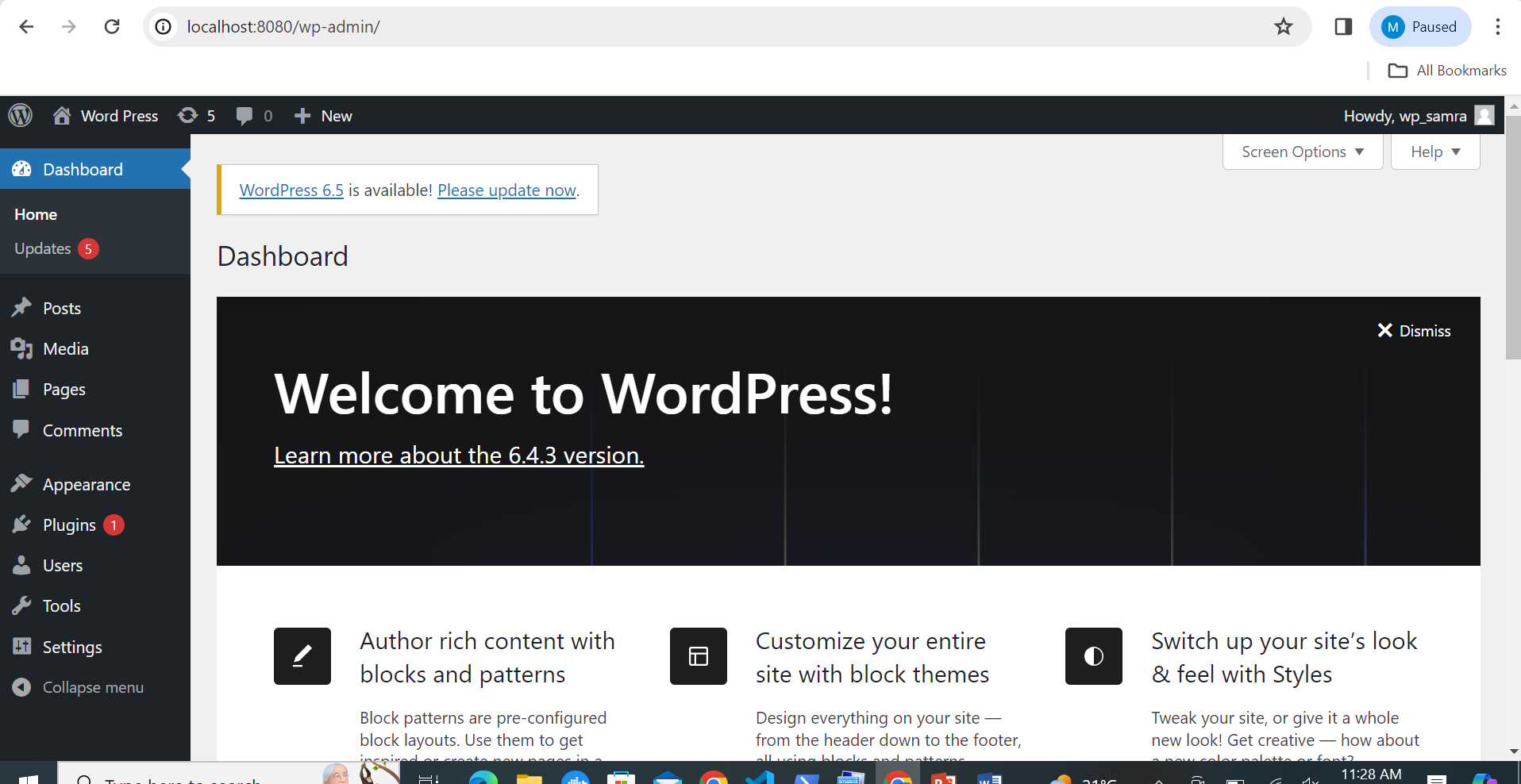
1. Once the container started is look as shown below:



1. Now pen your web browser and visit http://localhost:8080. You should see the WordPress installation page.
2. Enter your necessary information such as site title, username, password, and email.







1. Once you complete the installation, you can access your WordPress site by visiting http://localhost:8080 in your web browser.
2. The wordpress page look like this with your profileinformation.

