**Docker-Compose**

To set up a WordPress application with a MySQL database using Docker, you will need to create a `Dockerfile` for WordPress and use Docker Compose to manage both the WordPress and MySQL containers. Here's how you can create the necessary configuration files:

1. Create a Docker Compose configuration file (e.g., `**docker-compose.yml**`):

version: '3'

services:

# MySQL Database

db:

image: mysql:5.7

volumes:

- db\_data:/var/lib/mysql

environment:

MYSQL\_ROOT\_PASSWORD: example\_password

MYSQL\_DATABASE: wordpress

MYSQL\_USER: wordpress

MYSQL\_PASSWORD: wordpress\_password

# WordPress

wordpress:

image: wordpress:latest

ports:

- 8080:80

volumes:

- ./wp-content:/var/www/html/wp-content

environment:

WORDPRESS\_DB\_HOST: db

WORDPRESS\_DB\_USER: wordpress

WORDPRESS\_DB\_PASSWORD: wordpress\_password

WORDPRESS\_DB\_NAME: wordpress

volumes:

db\_data:

In this Docker Compose configuration:

- We define two services: `**db**` for the MySQL database and `**wordpress**` for the WordPress application.

- We use the official `**mysql:5.7**` and `**wordpress:latest**` images.

- We set environment variables for the MySQL service to configure the root password, database name, and user credentials.

- The **WordPress service** is configured to use the MySQL database service with the environment variables.

- We map port 8080 on your host machine to port 80 in the WordPress container.

- We create a Docker volume named `**db\_data**` to store the MySQL data.

2. Create a `**Dockerfile**` for your custom WordPress theme (if needed) or any other customizations.

3. Create a directory for your WordPress theme or customizations (e.g., `**wp-content**`) and place your custom theme files or other customizations in this directory.

4. Run the following command to start both the MySQL and WordPress containers:

```bash

**docker-compose up**

```

This command will download the necessary images, start the containers, and set up the WordPress site with a MySQL database. You can access your WordPress site by opening a web browser and navigating to `**http://localhost:8080`.**

Make sure to customize the MySQL and WordPress environment variables, as well as any other settings, according to your specific requirements.