* **[DevOps-Assignment](https://github.com/FiftyfiveTech/devops-assignment)**

## Task 1 :

# Use official WordPress image as the base image

FROM wordpress:latest

# Set author label

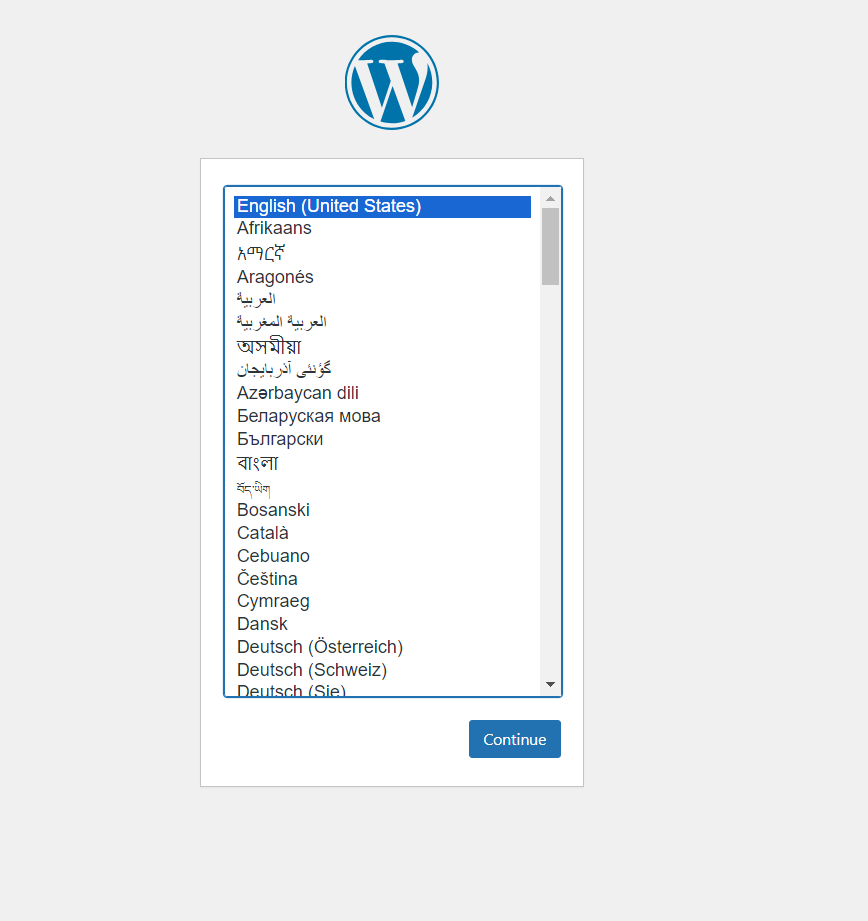
LABEL maintainer="souvik9733848376@gmail.com"

# Expose port 80

EXPOSE 80

# Command to run when the container starts

CMD ["apache2-foreground"]



## Task 2 :

version: '3'

services:

  # WordPress service

  wordpress:

    image: wordpress:latest

    container\_name: my-wordpress

    restart: always

    depends\_on:

      - mysql\_db

    environment:

      WORDPRESS\_DB\_HOST: mysql\_db:3306

      WORDPRESS\_DB\_NAME: wordpress

      WORDPRESS\_DB\_USER: wp\_user

      WORDPRESS\_DB\_PASSWORD: wp\_password

    ports:

      - "8081:80"

  # Database service

  mysql\_db:

    image: mysql:latest

    container\_name: my-mysql

    restart: always

    volumes:

      - db\_data:/var/lib/mysql

    environment:

      MYSQL\_ROOT\_PASSWORD: root\_password

      MYSQL\_DATABASE: wordpress

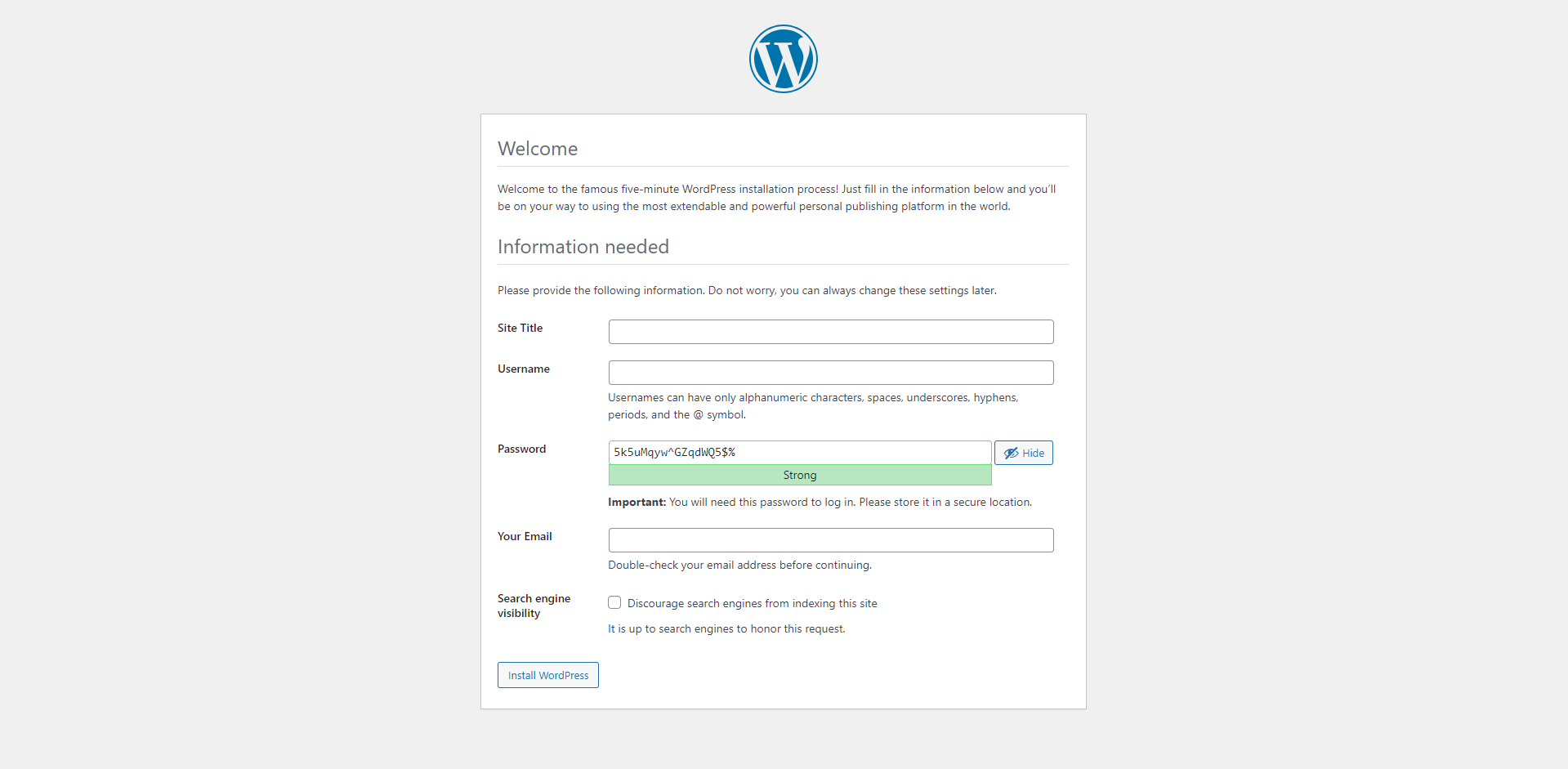
      MYSQL\_USER: wp\_user

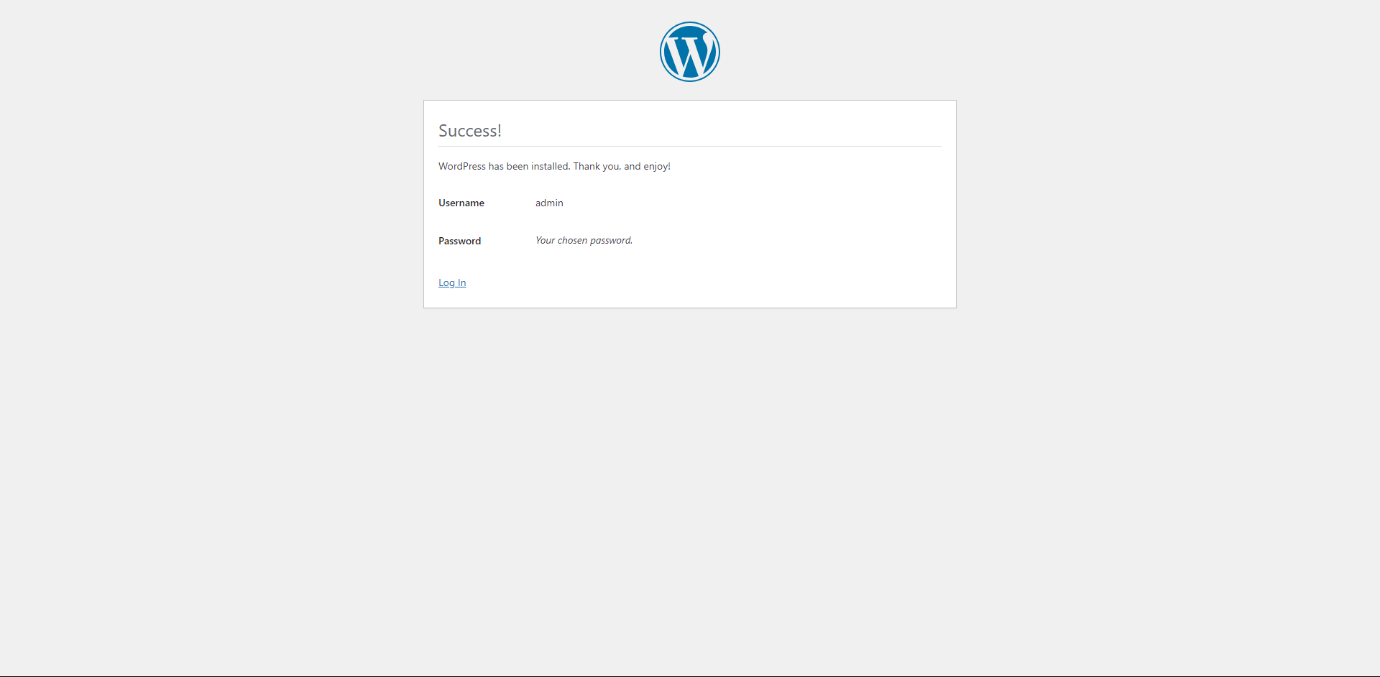
      MYSQL\_PASSWORD: wp\_password

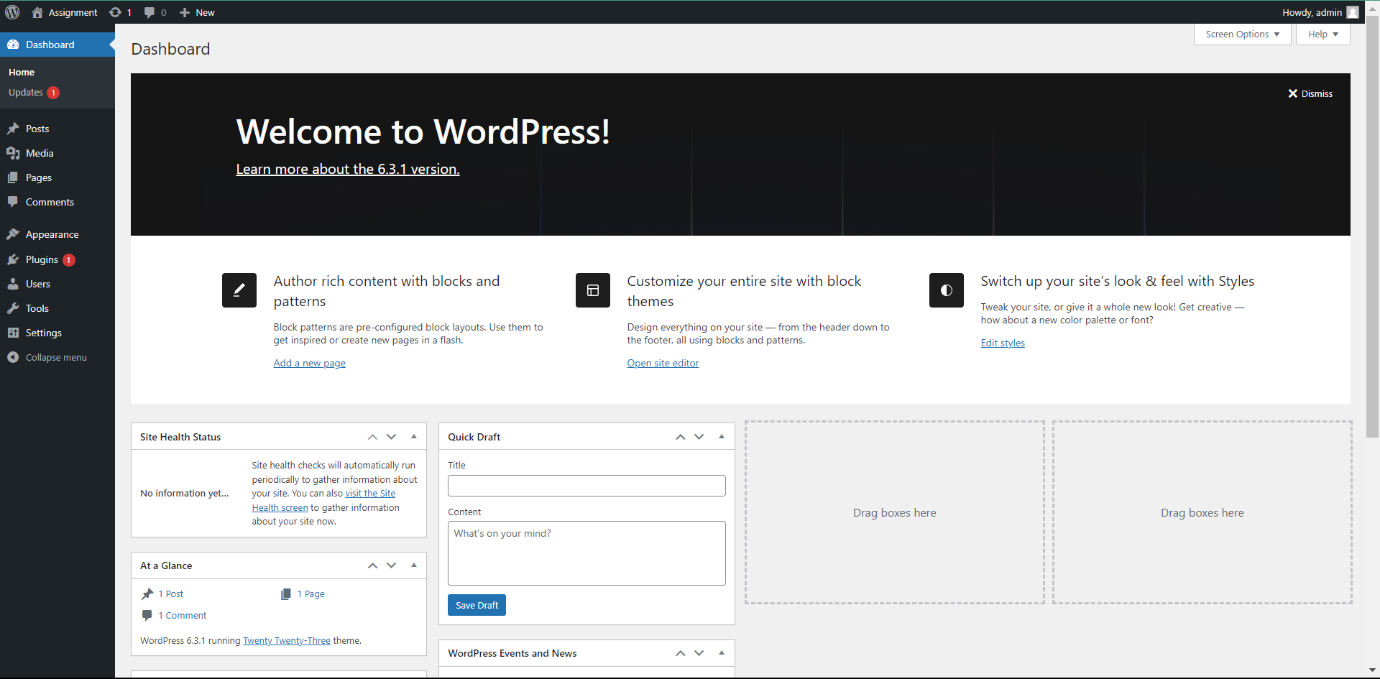
# adding volume

volumes:

    db\_data: {}

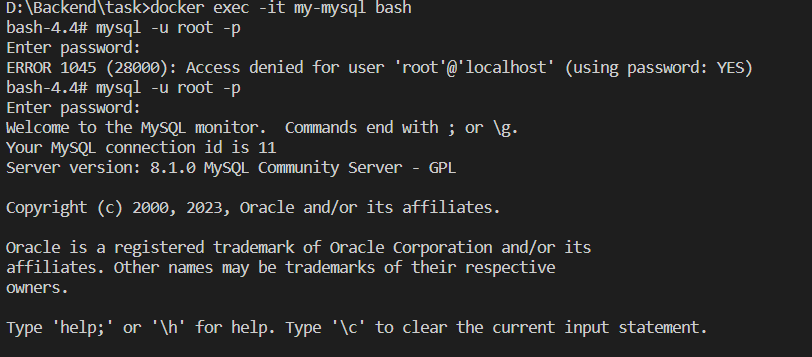




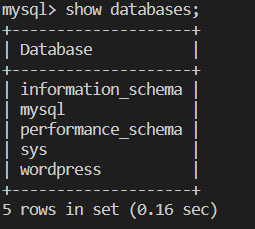


**Task 3 :**

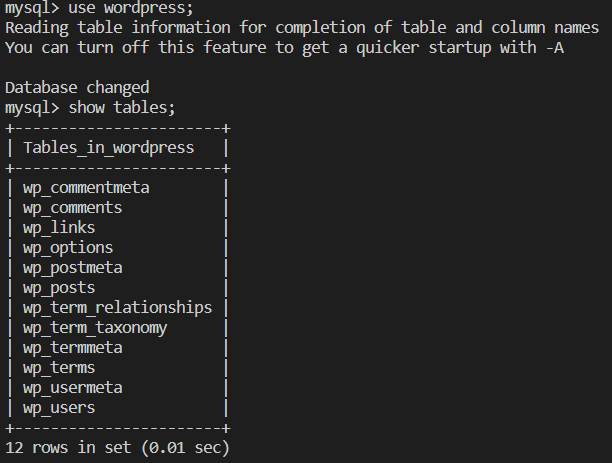
Container access and login



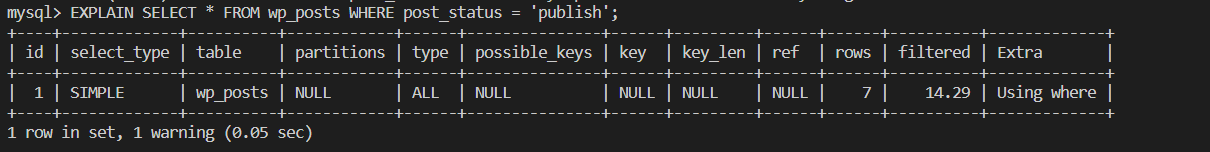
Showing database



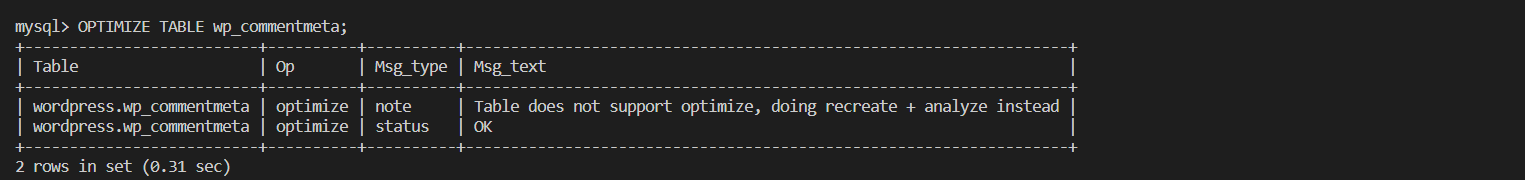
Using database and showing table



To Analyze Query Performance : Identify slow-running queries using the EXPLAIN statement



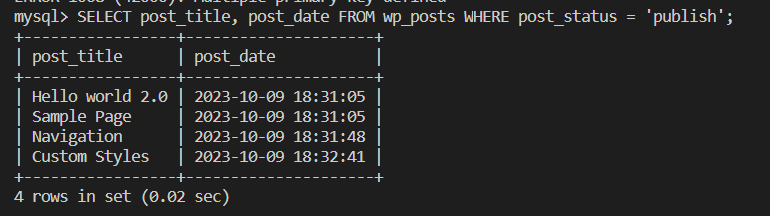
Indexing : Identify frequently used columns adding indexes to them



Ensure that each table has a primary key



Optimize Queries : Only retrieve the columns needed



Regular Maintenance : Analyze and Optimize Tables

