

1 Navigate to your project folder

```
cd C:\Users\uiiu\Downloads\my_lamp
```

2 Start containers

```
docker-compose up -d
```

- Starts all containers in background.

3 Stop containers

```
docker-compose down
```

- Stops and removes containers and network.

4 Restart containers

```
docker-compose restart
```

- Restarts all running containers.

5 Check running containers

```
docker ps
```

- Shows currently running containers.

6 Check all containers

```
docker ps -a
```

- Shows all containers, including stopped ones.

7 Access MySQL shell

```
docker exec -it my_lamp-db-1 mysql -u root -p
```

- Enter password: rootpassword

8 Create database and table (example)

```
CREATE DATABASE myapp;  
USE myapp;  
CREATE TABLE users (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(50) NOT NULL  
);
```

9 Grant privileges to a user

```
CREATE USER 'testuser'@'%' IDENTIFIED BY 'testpass';  
GRANT ALL PRIVILEGES ON myapp.* TO 'testuser'@'%';  
FLUSH PRIVILEGES;
```

10 Insert PHP example


```
<?php  
$servername = "db";  
$username = "testuser";  
$password = "testpass";  
$dbname = "myapp";  
$conn = new mysqli($servername, $username, $password, $dbname);  
if ($conn->connect_error) { die("Connection failed: " . $conn->connect_error); }  
$sql = "INSERT INTO users (name, email) VALUES ('Rafsan',  
'rafsan@example.com')";  
$conn->query($sql);
```

```
$conn->close();  
?>
```

1 Check logs

```
docker-compose logs
```

- Shows all container logs.

 **Tips:** - Always run `docker-compose up -d` after Power loss. - Use volumes to persist MySQL data. - Access your PHP site at: <http://localhost:8080>