

## KUIS 2 | SISTEM TERDISTRIBUSI

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Kelas : MI-3D

1. Buat repositori kuis2, kemudian masuk ke dalam repositori tersebut. Setelah itu buat repositori php dan masuk ke dalamnya.

```
ubuntu@instance-20210924-1038:~$ mkdir kuis2
ubuntu@instance-20210924-1038:~$ cd kuis2
ubuntu@instance-20210924-1038:~/kuis2$ mkdir php
ubuntu@instance-20210924-1038:~/kuis2$ cd php
ubuntu@instance-20210924-1038:~/kuis2/php$
```

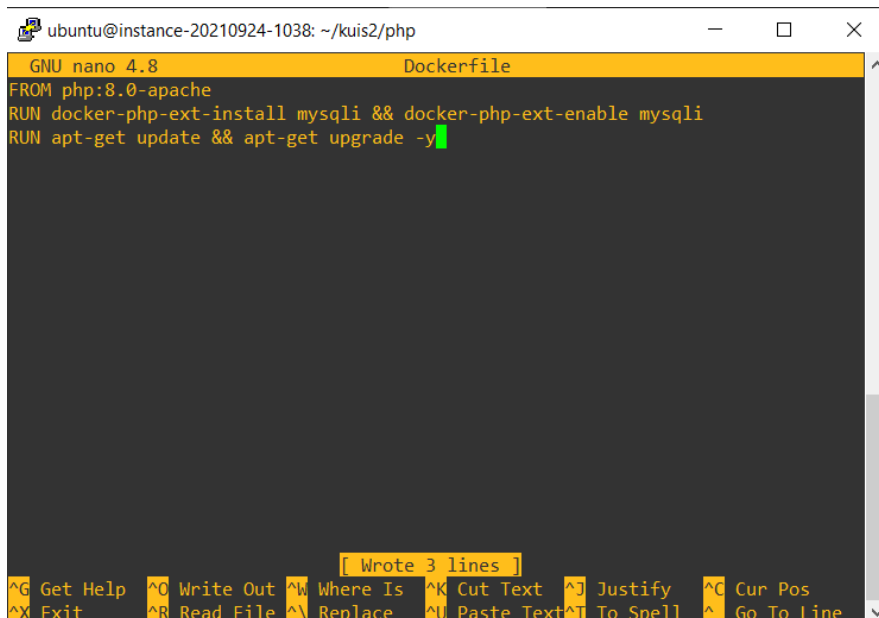
2. Clone repositori project open source

```
ubuntu@instance-20210924-1038:~/kuis2/php$ git clone https://github.com/Evina08/siswaDTS.git
Cloning into 'siswaDTS'...
remote: Enumerating objects: 586, done.
remote: Counting objects: 100% (586/586), done.
remote: Compressing objects: 100% (437/437), done.
remote: Total 586 (delta 138), reused 580 (delta 132), pack-reused 0
Receiving objects: 100% (586/586), 17.74 MiB | 2.85 MiB/s, done.
Resolving deltas: 100% (138/138), done.
Updating files: 100% (530/530), done.
ubuntu@instance-20210924-1038:~/kuis2/php$
```

3. Buat file Bernama Dockerfile dan masuk ke dalam file tersebut

```
ubuntu@instance-20210924-1038:~/kuis2/php$ touch Dockerfile
ubuntu@instance-20210924-1038:~/kuis2/php$ sudo nano Dockerfile
```

4. Isi Dockerfile seperti gambar dibawah ini



```
ubuntu@instance-20210924-1038: ~/kuis2/php
GNU nano 4.8 Dockerfile
FROM php:8.0-apache
RUN docker-php-ext-install mysqli && docker-php-ext-enable mysqli
RUN apt-get update && apt-get upgrade -y
```

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5. Pada VM buka networking → vcn → masuk dalam subnet → masuk dalam security list → add ingress rules → masukkan rules pertama yaitu port 8000 yang digunakan untuk akses website dan rules kedua port 8888 yang digunakan untuk akses phpMyAdmin
- Rules pertama

### Add Ingress Rules

#### Ingress Rule 1

Allows TCP traffic 8000

☐ Stateless ⓘ

Source Type

CIDR

Source CIDR

0.0.0.0/0

Specified IP addresses: 0.0.0.0-255.255.255.255 (4,294,967,296 IP addresses)

IP Protocol ⓘ

TCP

Source Port Range Optional ⓘ

All

Examples: 80, 20-22

Destination Port Range Optional ⓘ

8000

Examples: 80, 20-22

Description Optional

Allow HTTP Connections

Maximum 255 characters

+ Another Ingress Rule

### Rules kedua

#### Ingress Rule 2

Allows TCP traffic 8888

☐ Stateless ⓘ

Source Type

CIDR

Source CIDR

0.0.0.0/0

Specified IP addresses: 0.0.0.0-255.255.255.255 (4,294,967,296 IP addresses)

IP Protocol ⓘ

TCP

Source Port Range Optional ⓘ

All

Examples: 80, 20-22

Destination Port Range Optional ⓘ

8888

Examples: 80, 20-22

Description Optional

Allow HTTP Connections

Maximum 255 characters

+ Another Ingress Rule

Add Ingress Rules

Cancel

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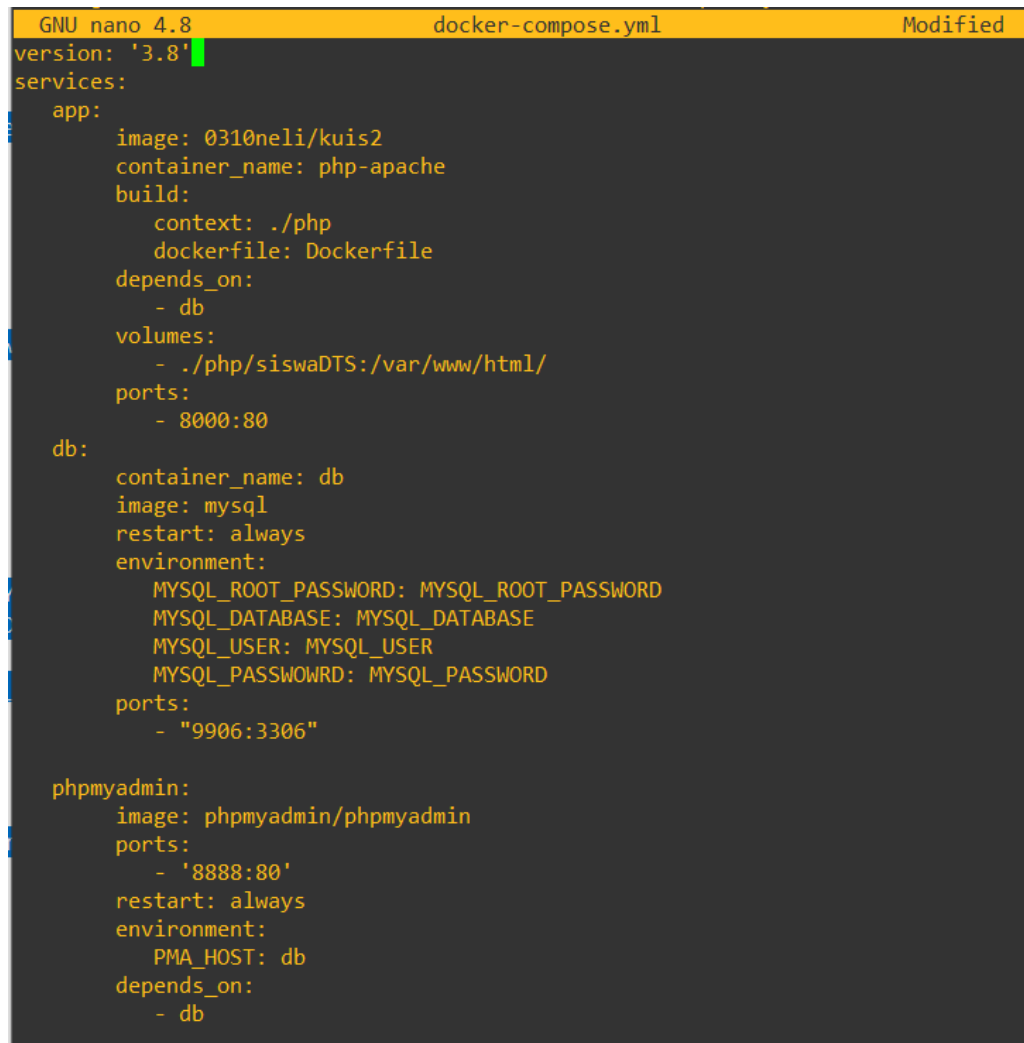
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6. Buat file bernama docker-compose.yml di dalam direktori kuis2

```
ubuntu@instance-20210924-1038:~$ cd kuis2
ubuntu@instance-20210924-1038:~/kuis2$ nano docker-compose.yml
```

7. Isikan file docker-compose.yml seperti gambar dibawah



```
GNU nano 4.8                                docker-compose.yml                                Modified
version: '3.8'
services:
  app:
    image: 0310neli/kuis2
    container_name: php-apache
    build:
      context: ./php
      dockerfile: Dockerfile
    depends_on:
      - db
    volumes:
      - ./php/siswaDTS:/var/www/html/
    ports:
      - 8000:80
  db:
    container_name: db
    image: mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: MYSQL_ROOT_PASSWORD
      MYSQL_DATABASE: MYSQL_DATABASE
      MYSQL_USER: MYSQL_USER
      MYSQL_PASSWORD: MYSQL_PASSWORD
    ports:
      - "9906:3306"
  phpmyadmin:
    image: phpmyadmin/phpmyadmin
    ports:
      - '8888:80'
    restart: always
    environment:
      PMA_HOST: db
    depends_on:
      - db
```

8. Masuk ke dalam direktori php kemudian direktori project dan buka file koneksi.php

```
ubuntu@instance-20210924-1038:~/kuis2$ cd php
ubuntu@instance-20210924-1038:~/kuis2/php$ ls
Dockerfile  siswaDTS
ubuntu@instance-20210924-1038:~/kuis2/php$ cd siswaDTS
ubuntu@instance-20210924-1038:~/kuis2/php/siswaDTS$ nano koneksi.php
```

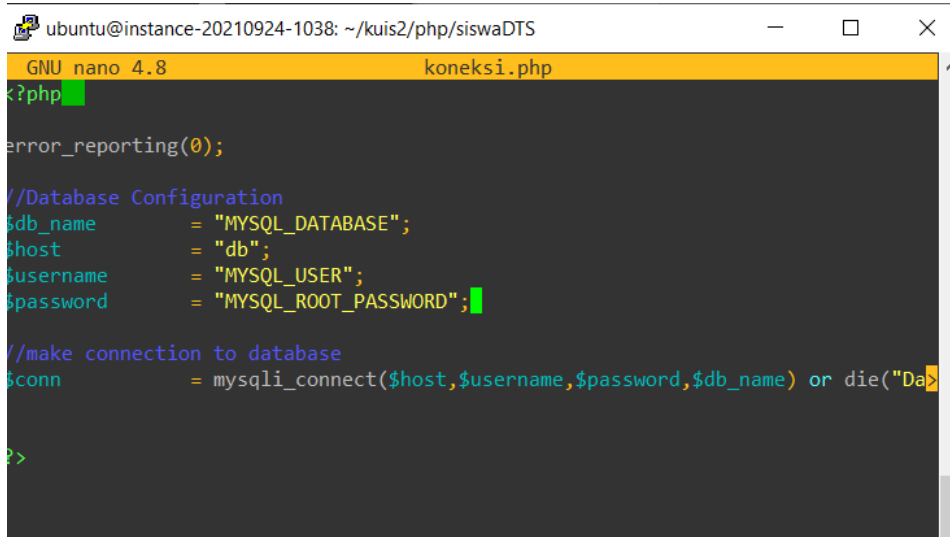
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9. Edit file koneksi.php seperti gambar dibawah

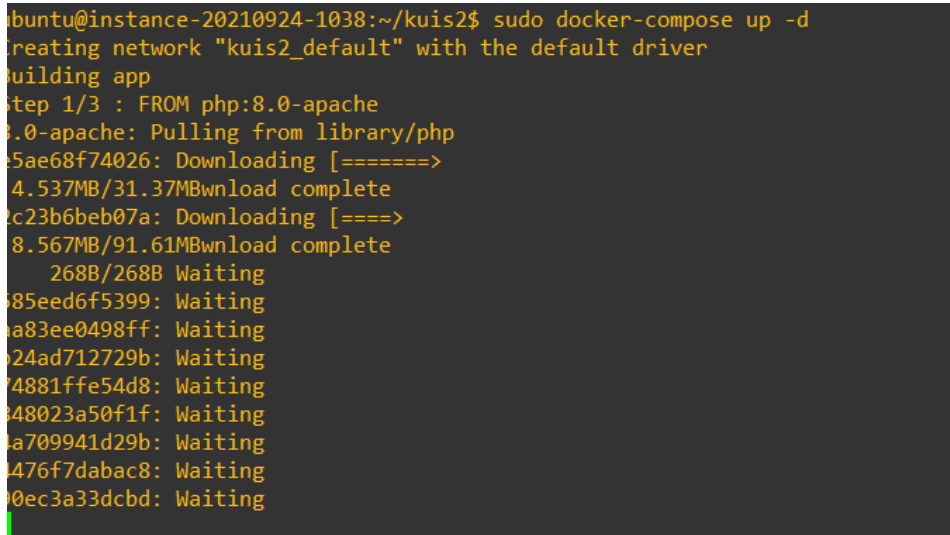


```
ubuntu@instance-20210924-1038: ~/kuis2/php/siswaDTS
GNU nano 4.8 koneksi.php
<?php
error_reporting(0);

//Database Configuration
$db_name      = "MYSQL_DATABASE";
$host         = "db";
$username     = "MYSQL_USER";
$password     = "MYSQL_ROOT_PASSWORD";

//make connection to database
$conn         = mysqli_connect($host,$username,$password,$db_name) or die("Da
?>
```

10. Lakukan upload project yang telah dikonfigurasi sebelumnya



```
ubuntu@instance-20210924-1038:~/kuis2$ sudo docker-compose up -d
Creating network "kuis2_default" with the default driver
Building app
Step 1/3 : FROM php:8.0-apache
8.0-apache: Pulling from library/php
5ae68f74026: Downloading [=====>
4.537MB/31.37MB Download complete
c23b6beb07a: Downloading [====>
8.567MB/91.61MB Download complete
268B/268B Waiting
85eed6f5399: Waiting
a83ee0498ff: Waiting
24ad712729b: Waiting
4881ffe54d8: Waiting
48023a50f1f: Waiting
a709941d29b: Waiting
476f7dabac8: Waiting
0ec3a33dcdb: Waiting
```

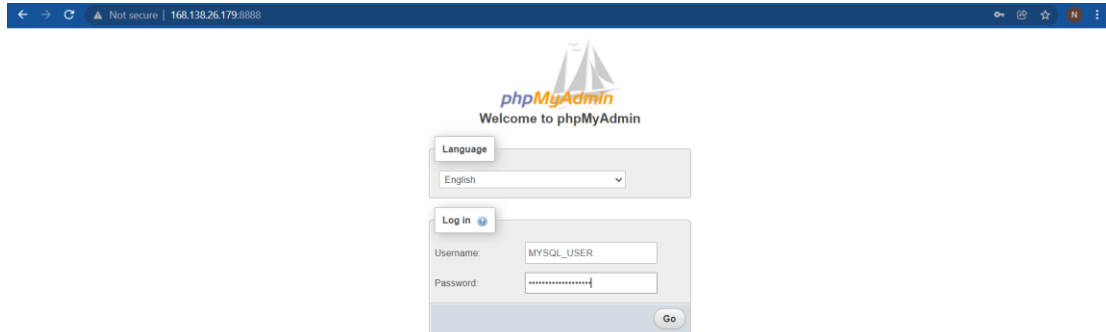
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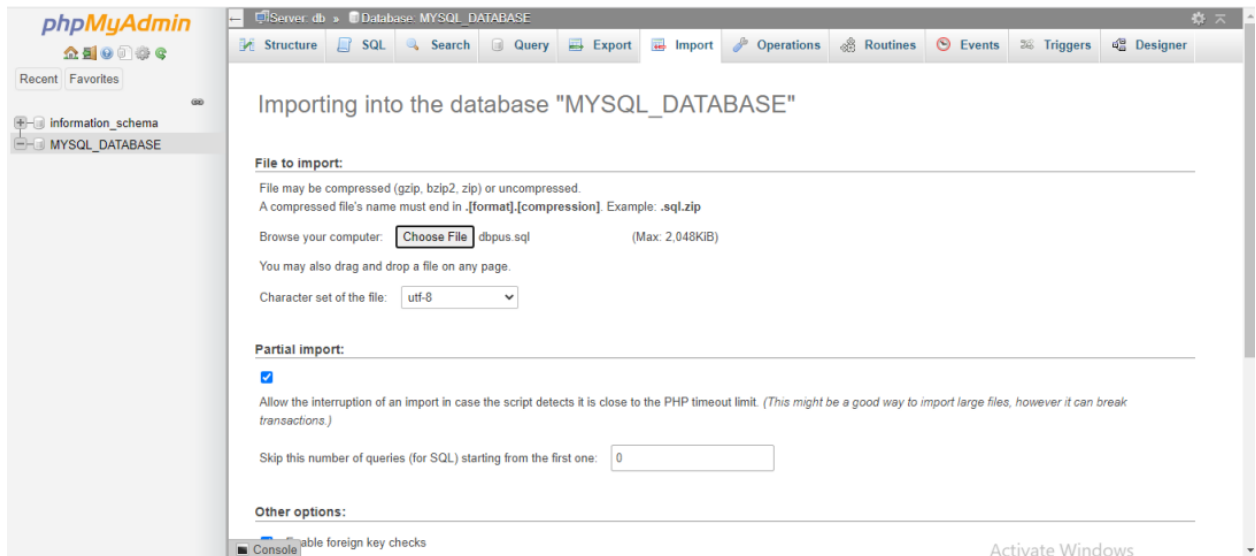
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11. Buka halaman <http://168.138.26.179:8888> pada browser untuk akses phpMyAdmin



12. Import database yang digunakan untuk project yang telah dikonfigurasi tadi



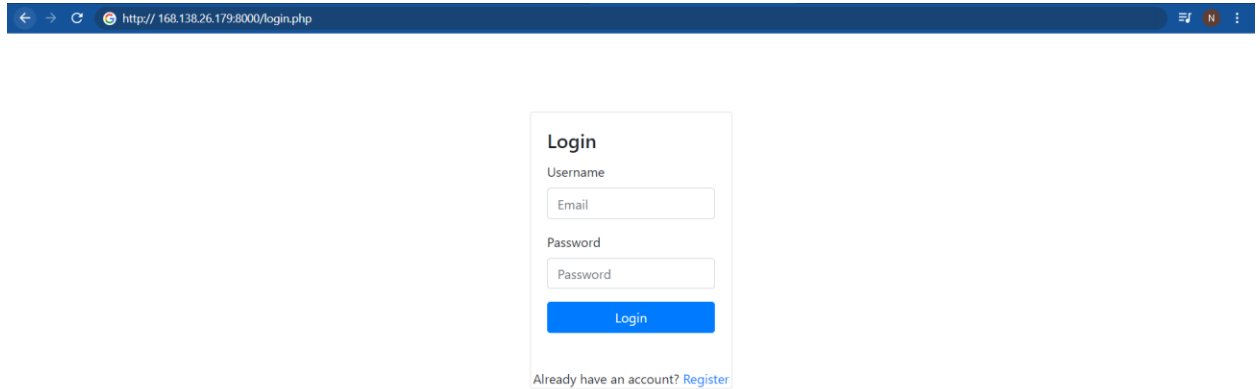
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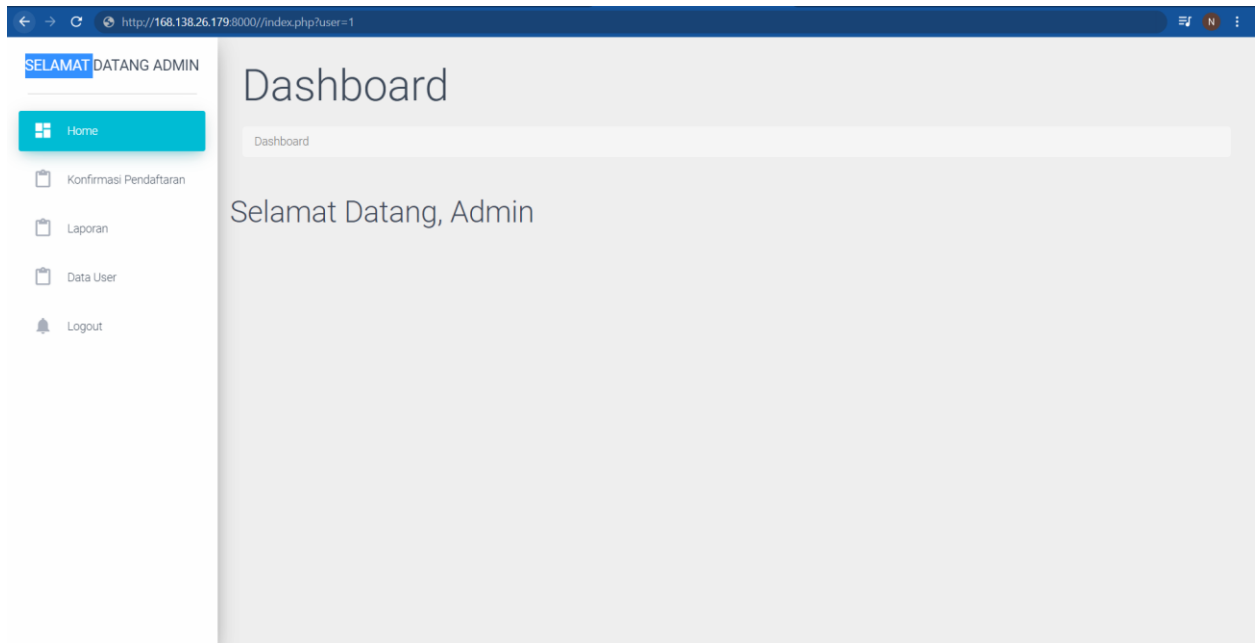
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13. Jalankan website dengan membuka halaman <http://168.138.26.179:8000/login.php> .Jika berhasil tampilannya akan seperti gambar dibawah



The screenshot shows a web browser window with the address bar displaying <http://168.138.26.179:8000/login.php>. The page content is a login form titled "Login". It contains two input fields: "Username" with a placeholder "Email" and "Password" with a placeholder "Password". Below these fields is a blue "Login" button. At the bottom of the form, there is a link that says "Already have an account? Register".

14. Tampilan setelah login



## KUIS 2 | SISTEM TERDISRIBUSI

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### 15. Push to docker hub

```
ubuntu@instance-20210924-1038:~/kuis2$ sudo docker push 0310neli/kuis2
Using default tag: latest
The push refers to repository [docker.io/0310neli/kuis2]
5ac4330253ee: Preparing
6f7cab95d752: Preparing
66993ba53ddd: Preparing
54472fb383a2: Preparing
d9a35b6b1de9: Preparing
41eb066d5e8d: Waiting
940270d31384: Waiting
618a1f76f3dd: Waiting
2fd5e1e29221: Waiting
7993b86d9aee: Waiting
5d6a6c05080c: Waiting
b258e9d25731: Waiting
ddd4adc58b9e: Waiting
ae6d225e2209: Waiting
9321ff862abb: Waiting
```