KOMPUTASI AWAN

Kuis 1

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PROGRAM STUDI TEKNIK INFORMATIKA
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Kuis 1

Melakukan Setup aplikasi Wordpress di VM+DB (Membuat laporan dan push di repository github).

Install Wordpress Pada PaaS

A. Membuat Database

```
mysql> create database wordpress;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
| wordpress          |
+--------------------+
5 rows in set (0.00 sec)

mysql> grant all privileges on wordpress. *to admin;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

B. Download Wordpress Pada Folder /var/www/html dengan perintah.
  - wget https://wordpress.org/latest.tar.gz;

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html
ubuntu@vm-ubuntu1:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz;
--2021-11-04 15:34:18--  https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15087630 (14M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz        100%[====================>]  14.39M  1.71MB/s    in 63s

2021-11-04 15:35:22 (233 KB/s) - 'latest.tar.gz' saved [15087630/15087630]

ubuntu@vm-ubuntu1:/var/www/html$
```

C. Mengetrak Wordpress Pada Folder /var/www/html

dengan perintah :

➢ sudo tar zxvf latest.tar.gz

➢ sudo rm rf latest.tar.gz

D. Selanjutnya menginstall extension mysql

Install dan mengaktifkannya pada php.ini. Berikut adalah perintah untuk menginstall extenstion mysql pada php.

➢ sudo apt-get install php-mysql

```
ubuntu@vm-ubuntu1:~$ sudo apt-get install php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  php7.4-mysql
The following NEW packages will be installed:
  php-mysql php7.4-mysql
0 upgraded, 2 newly installed, 0 to remove and 19 not upgraded.
Need to get 123 kB of archives.
After this operation, 487 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
 amd64 php7.4-mysql amd64 7.4.3-4ubuntu2.7 [121 kB]
Get:2 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal/main amd64 p
hp-mysql all 2:7.4+75 [2000 B]
Fetched 123 kB in 1s (90.4 kB/s)
Selecting previously unselected package php7.4-mysql.
(Reading database ... 71007 files and directories currently installed.)
Preparing to unpack .../php7.4-mysql_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-mysql (7.4.3-4ubuntu2.7) ...
Selecting previously unselected package php-mysql.
Preparing to unpack .../php-mysql_2%3a7.4+75_all.deb ...
Unpacking php-mysql (2:7.4+75) ...
Setting up php7.4-mysql (7.4.3-4ubuntu2.7) ...

Creating config file /etc/php/7.4/mods-available/mysqlnd.ini with new version

Creating config file /etc/php/7.4/mods-available/mysqli.ini with new version

Creating config file /etc/php/7.4/mods-available/pdo_mysql.ini with new version
Setting up php-mysql (2:7.4+75) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.7) ...
Processing triggers for php7.4-cli (7.4.3-4ubuntu2.7) ...
ubuntu@vm-ubuntu1:~$
```

➢ sudo service apache2 restart
➢ sudo chown www-data:www-data -R *

```
ubuntu@vm-ubuntu1:~$ cd /etc/php/7.4/apache2
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$ sudo service apache2 restart
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$ sudo chown www-data:www-data -R *
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$
```

E. Selanjutnya Proses Instalasi Wordpress Melalui Browser

Disini saya tidak bisa membuat file wp-config secara otomatis, maka saya harus membuatnya secara manual dengan meng-copy paste isi teks berikut.

Kita perlu mengeditnya dengan perintah sudo nano wp-config.php

```
GNU nano 4.8                                              wp-config.php                                              Modified
<?php
/**
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the web site, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * MySQL settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://wordpress.org/support/article/editing-wp-config-php/
 *
 * @package WordPress
 */

// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress' );

/** MySQL database username */
define( 'DB_USER', 'admin' );

/** MySQL database password */
define( 'DB_PASSWORD', '@2001IbRaHi' );

/** MySQL hostname */
define( 'DB_HOST', '10.0.0.126' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );

/**#@+
 * Authentication unique keys and salts.
 *
 * Change these to different unique phrases! You can generate these using
 * the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service}.
 *
 * You can change these at any point in time to invalidate all existing cookies.
```

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title   Praktikum Sistem Terdistribusi

Username   admin

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password   p)bjw@SO(dghMhrVMK   🚫 Hide

Strong

Important: You will need this password to log in. Please store it in a secure location.

Your Email   1941720235@student.polinem

Double-check your email address before continuing.

Search engine visibility   ☐ Discourage search engines from indexing this site

It is up to search engines to honor this request.

Install WordPress

Pengisian Data Sukses Dilakukan

Success!

WordPress has been installed. Thank you, and enjoy!

Username	admin
Password	*Your chosen password.*

Log In

Praktikum Sistem Terdistribusi   Customize   1   0   New   Howdy, admin
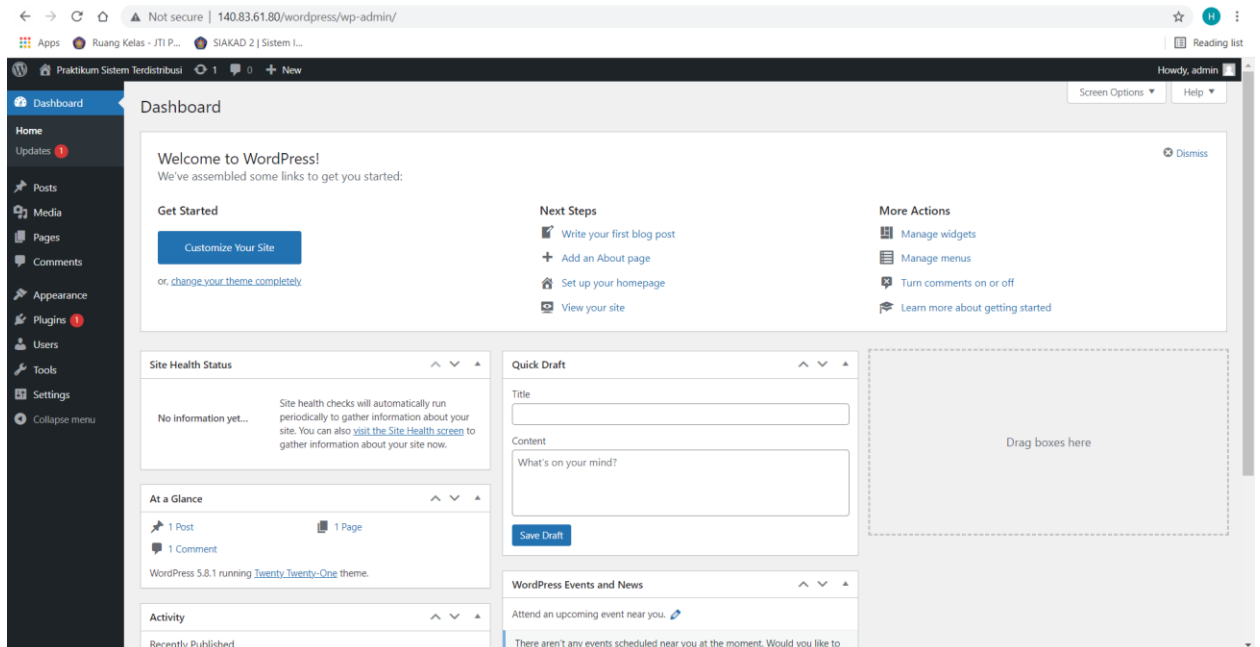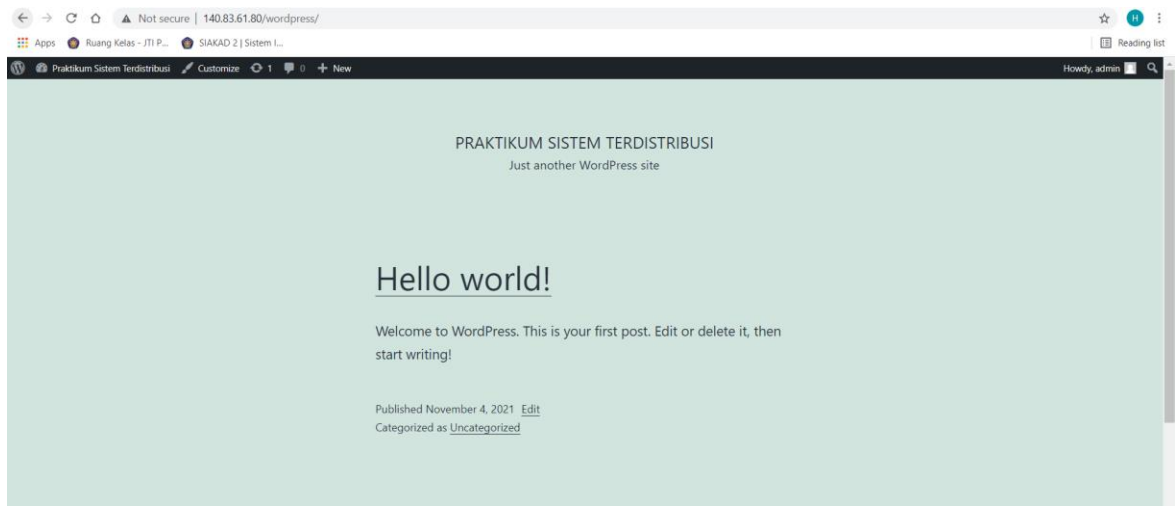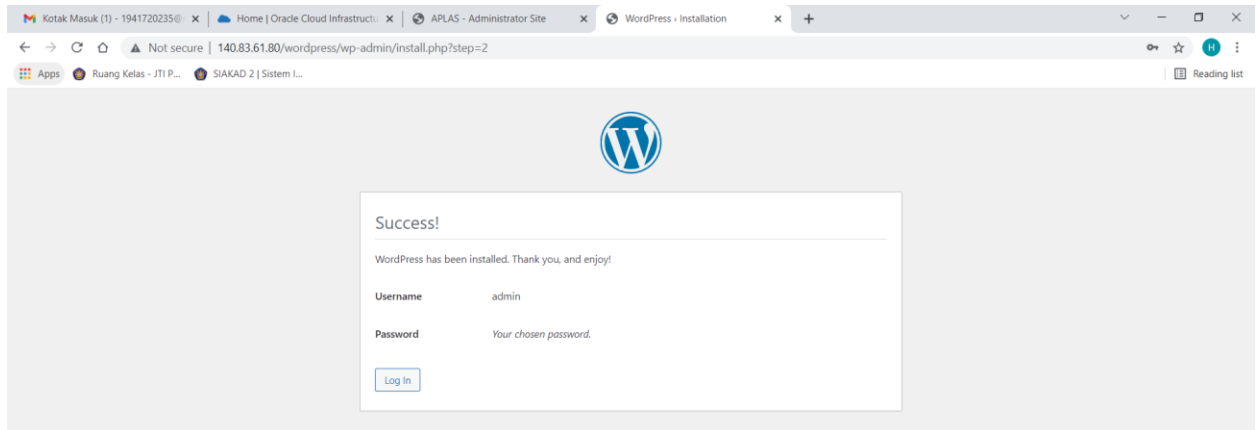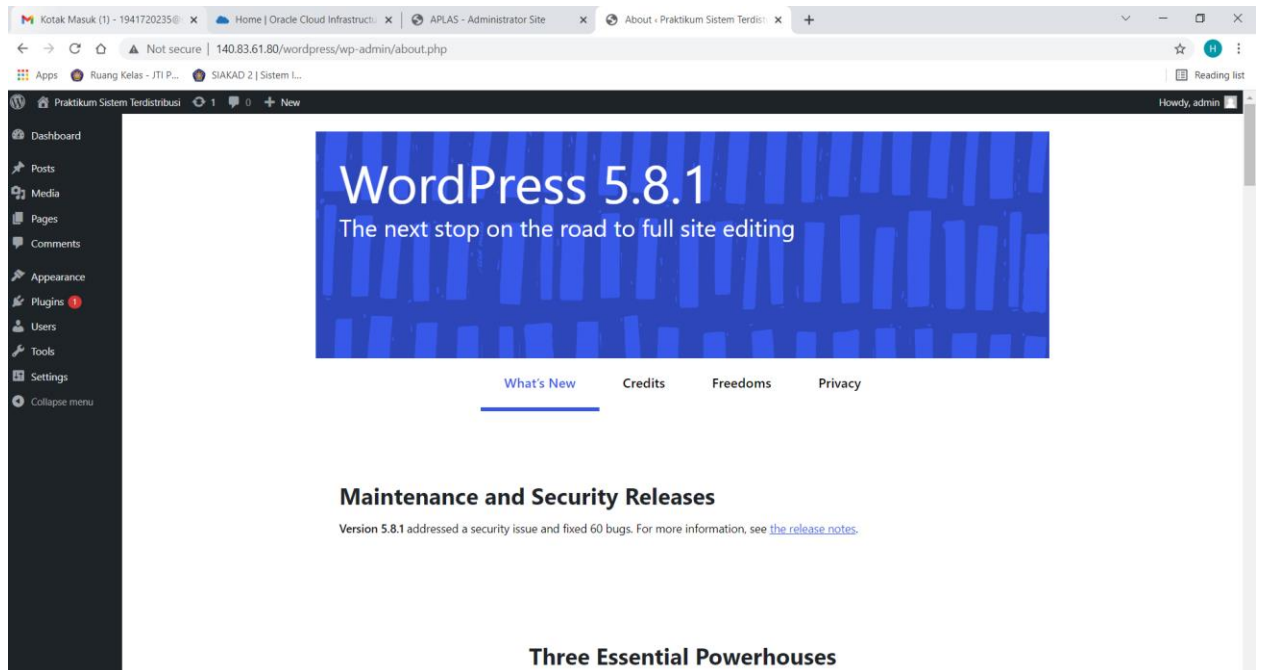
PRAKTIKUM SISTEM TERDISTRIBUSI
Just another WordPress site

Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

Published November 4, 2021   Edit

Categorized as Uncategorized

Praktikum Sistem Terdistribusi   1   0   New   Howdy, admin

Dashboard

- Home
- Updates 1
- Posts
- Media
- Pages
- Comments
- Appearance
- Plugins 1
- Users
- Tools
- Settings
- Collapse menu

Dashboard

Screen Options ▼   Help ▼

Welcome to WordPress!
We've assembled some links to get you started: ✕ Dismiss

Get Started

Customize Your Site

or, change your theme completely

Next Steps

- Write your first blog post
- Add an About page
- Set up your homepage
- View your site

More Actions

- Manage widgets
- Manage menus
- Turn comments on or off
- Learn more about getting started

Site Health Status

No information yet...   Site health checks will automatically run periodically to gather information about your site. You can also visit the Site Health screen to gather information about your site now.

Quick Draft

Title

Content

What's on your mind?

Save Draft

Drag boxes here

At a Glance

📌 1 Post   📄 1 Page
💬 1 Comment

WordPress 5.8.1 running Twenty Twenty-One theme.

Activity

Recently Published

WordPress Events and News

Attend an upcoming event near you. ✏️

There aren't any events scheduled near you at the moment. Would you like to

Tugas Praktikum PaaS

Cari aplikasi php yang memiliki database kemudian upload ke server dan buat databasenya. Disini saya menggunakan aplikasi web berbasis PHP, yaitu CRUD pendaftaran siswa baru

1. Mengakses instance dengan SSH

2. Mengakses MySQL dan mengkoneksikan database

3. Membuat database pendaftaransiswa lalu mengecek apakah database berhasil dibuat, dan memberikan privileges database kepada user.

```
mysql> create database pendaftaransiswa;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| pendaftaransiswa   |
| performance_schema |
| sys                |
| wordpress          |
+--------------------+
6 rows in set (0.00 sec)

mysql> grant all privileges on pendaftaransiswa. *to admin;
Query OK, 0 rows affected (0.01 sec)

mysql>
```

4. Keluar dari mysql dan masuk ke direktori /var/www/html untuk mendapatkan aplikasi php pendaftaransiswa dari repositori

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html
ubuntu@vm-ubuntu1:/var/www/html$ sudo git clone https://github.com/petanikode/tutorial-php-mysql.git
Cloning into 'tutorial-php-mysql'...
remote: Enumerating objects: 16, done.
remote: Total 16 (delta 0), reused 0 (delta 0), pack-reused 16
Unpacking objects: 100% (16/16), 4.60 KiB | 1.53 MiB/s, done.
ubuntu@vm-ubuntu1:/var/www/html$
```

➢ Mengecek folder hasil cloning dari repository

```
ubuntu@vm-ubuntu1:/var/www/html$ ls
index.html   tutorial-php-mysql   wordpress
ubuntu@vm-ubuntu1:/var/www/html$
```

5. Mengecek file dengan format .sql supaya bisa mengimpor table-tabel untuk database pendaftaransiswa

```
ubuntu@vm-ubuntu1:/var/www/html$ ls tutorial-php-mysql
README.md    form-daftar.php  hapus.php  list-siswa.php         proses-edit.php
config.php   form-edit.php    index.php  pendaftaran_siswa.sql  proses-pendaftaran.php
ubuntu@vm-ubuntu1:/var/www/html$
```

6. Masuk ke MySQL untuk mengimpor file .sql dari folder tutorial-php�mysql/pendaftaran_siswa.sql

```
ubuntu@vm-ubuntu1:/var/www/html$ mysql -u admin -p -h 10.0.0.126 pendaftaransiswa < /var/www/html/tutor
ial-php-mysql/pendaftaran_siswa.sql
Enter password:
ubuntu@vm-ubuntu1:/var/www/html$ █
```

7. Melihat table yang diimpor tadi pada database pendaftaransiswa, untuk memastikan apakah berhasil diimpor

```
ubuntu@vm-ubuntu1: ~                                            —    □    ✕

ubuntu@vm-ubuntu1:~$ mysql -u admin -p -h 10.0.0.126
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 130
Server version: 8.0.27-cloud MySQL Enterprise - Cloud

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| pendaftaransiswa   |
| performance_schema |
| sys                |
| wordpress          |
+--------------------+
6 rows in set (0.00 sec)

mysql> use pendaftaransiswa;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+----------------------------+
| Tables_in_pendaftaransiswa |
+----------------------------+
| calon_siswa                |
+----------------------------+
1 row in set (0.00 sec)

mysql> █
```

8. Mengedit file konfigurasi php

➢ File index.php

➢ File config.php


```php
<?php

$server = "10.0.0.126";
$user = "admint";
$password = "@2001IbRaHi";
$nama_database = "pendaftaran siswa";

$db = mysqli_connect($server, $user, $password, $nama_database);

if( !$db ){
    die("Gagal terhubung dengan database: " . mysqli_connect_error());
}

?>
```

9. Setelah itu kita coba jalankan aplikasinya

Pendaftaran Siswa Baru

SMK Coding

Menu

- Daftar Baru
- Pendaftar