Instalasi Wordpress Ubuntu Server + Apache

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Instalasi Server di VirtualBox

Disini saya menggunakan **Ubuntu Server 20.04**

VirtualBox Network Adapter

Mode: Bridge Adapter

Network Connection

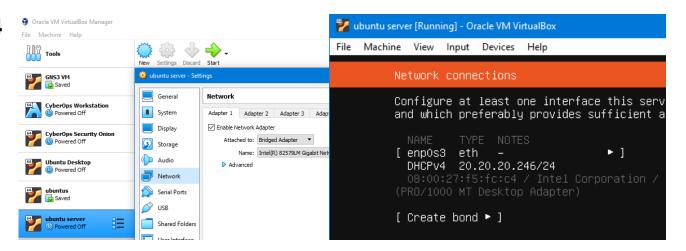
IP DHCP: 20.20.20.246/24

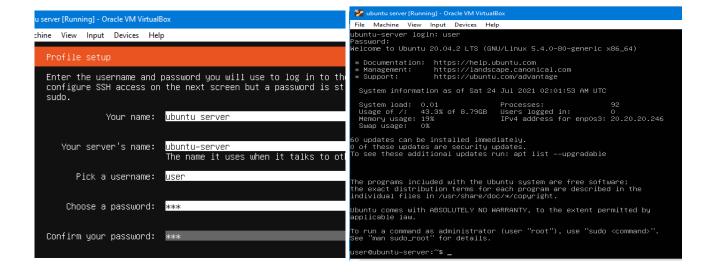
Profile Setup

Server-name: ubuntu-server

Username: user

Password: 123



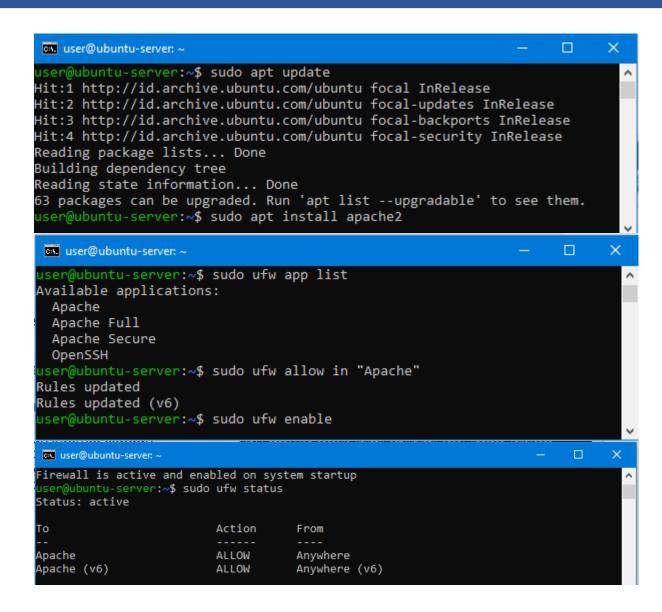


Instalasi Apache

Berikut konfigurasi untuk instalasi web server apache dan juga mengizinkan traffic/lalulintas http untuk webserver apache.

```
sudo apt install apache2
sudo ufw allow in "Apache"
sudo ufw enable
```

- Apache: Profil ini hanya membuka port 80
- Apache Full: Profil ini membuka baik port 80 dan port 443
- Apache Secure: Profile ini hanya membuka port 443

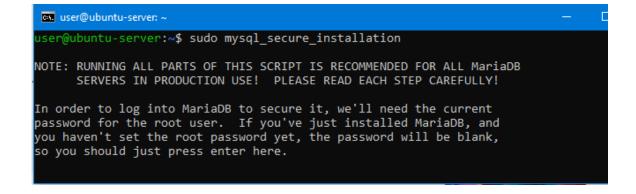


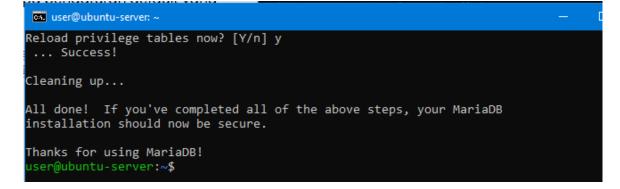
Instalasi MariaDB

Berikut konfigurasi untuk instalasi MariaDB dan juga menjalankakn konfigurasi keamanan untuk menghapus beberapa pengaturan default yang tidak aman.

sudo apt install mariadb-server mariadb-client
sudo mysql_secure_installation

Processing triggers for libc-bin (2.31-0ubuntu9.2) ...############# user@ubuntu-server:~\$ sudo apt install mariadb-server mariadb-client





Instalasi php

Untuk instalasi php kita juga memerlukan beberapa ekstensi tambahan dan modul agar bahasa pemrograman php bisa berkomunikasi dengan basis data MariaDB(MySQL) dan juga web server apache.

sudo apt install php libapache2-mod-php php-mysql php-curl
php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl
php-zip

```
user@ubuntu-server:~$ sudo apt install php libapache2-mod-php php-mysql php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip

user@ubuntu-server:~$ php -v
PHP 7.4.3 (cli) (built: Jul 5 2021 15:13:35) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
   with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
user@ubuntu-server:~$
```

```
user@ubuntu-server: ~
Setting up php-mbstring (2:7.4+75) ...
Setting up php-xmlrpc (2:7.4+75) ...
Setting up libtiff5:amd64 (4.1.0+git191117-2ubun
tu0.20.04.1) ...Setting up libfontconfig1:amd64
(2.13.1-2ubuntu3) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2) ...
Setting up php7.4-gd (7.4.3-4ubuntu2.5) ...
debconf: unable to initialize frontend: Dialog
debconf: (Dialog frontend requires a screen at l
east 13 lines tall and 31 columns wide.)
debconf: falling back to frontend: Readline
Creating config file /etc/php/7.4/mods-available
/gd.ini with new version
Setting up php-gd (2:7.4+75) ...
Processing triggers for libc-bin (2.31-0ubuntu9.
2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libapache2-mod-php7.4 (7
.4.3-4ubuntu2.5) ...
Processing triggers for php7.4-cli (7.4.3-4ubunt
u2.5) ...
 ıser@ubuntu-server:~$
```

Membuat Virtual Host untuk Website

Sebelum membuat virtual host, saya akan membuat direktori baru dan juga menentukan kepemilikan dari direktori tersebut.

Setelah kita membuat direktori barulah kita menambahkan konfigurasi virtual host didalam file .conf

```
sudo mkdir /var/www/vatih
sudo chown -R $USER:$USER /var/www/vatih

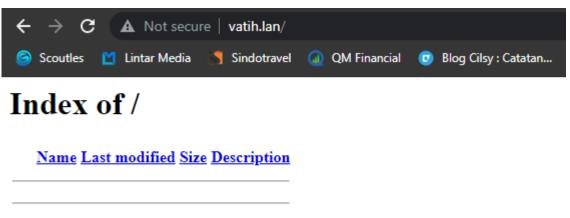
sudo nano /etc/apache2/sites-available/vatih.conf
<VirtualHost *:80>
    ServerName vatih.lan
    ServerAlias www.vatih.lan
    ServerAdmin admin@localhost
    DocumentRoot /var/www/vatih
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
-server:∾$ sudo mkdir /var/www/vatih
      buntu-server:~$ sudo chown -R $USER:$USER /var/www/vatih
       untu-server:∼$ sudo nano /etc/apache2/sites-available/vatih.con
user@ubuntu-server: ~
 GNU nano 4.8 /etc/apache2/sites-available/vatih.conf
sudo nano /etc/apache2/sites-available/vatih.conf
<VirtualHost *:80>
   ServerName vatih.lan
   ServerAlias www.vatih.lan
   ServerAdmin admin@localhost
   DocumentRoot /var/www/vatih
   ErrorLog ${APACHE LOG DIR}/error.log
   CustomLog ${APACHE LOG DIR}/access.log combined
</VirtualHost>
             ^R Read File ^\ Replace
```

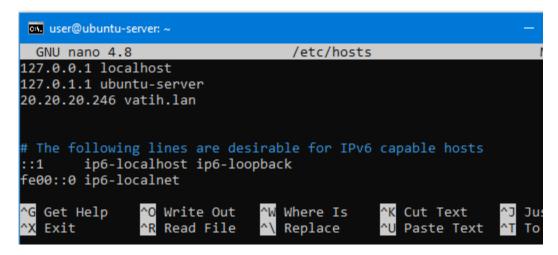
Membuat Virtual Host untuk Website

Selanjutnya kita menambahkan serta mengtifkan virtual host dan juga mendisable web host bawaan dari apache web server

```
sudo nano /etc/hosts
sudo a2ensite vatih
sudo a2dissite 000-default
sudo apache2ctl configtest
sudo systemctl reload apache2
```



Apache/2.4.41 (Ubuntu) Server at vatih.lan Port 80



```
user@ubuntu-server:~

user@ubuntu-server:~$ sudo a2ensite vatih
a2dissite 000-default
sudo apache2ctl configtest
sudo systemctl reload apache2Site vatih already enabled
user@ubuntu-server:~$ sudo a2dissite 000-default
Site 000-default already disabled
user@ubuntu-server:~$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully
domain name, using 127.0.1.1. Set the 'ServerName' directive glo
uppress this message
Syntax OK
user@ubuntu-server:~$ sudo systemctl reload apache2
```

Membuat Database di MariaDB

Berikut ini beberapa konfigurasi yang saya terapkan untuk membuat database di mariadb.

```
sudo mysql -u root -p

CREATE DATABASE wpdb;

CREATE USER 'wpuser'@'localhost' IDENTIFIED BY
'Vatih1@3';

GRANT ALL ON wpdb.* TO 'wpuser'@'localhost'
IDENTIFIED BY ' Vatih1@3' WITH GRANT OPTION;

FLUSH PRIVILEGES;
EXIT;
```

```
user@ubuntu-server:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 58
Server version: 10.3.29-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>
```

```
user@ubuntu-server:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 59
Server version: 10.3.29-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> CREATE DATABASE wpdb;
Query OK, 1 row affected (0.000 sec)
MariaDB [(none)]> GRANT ALL ON wpdb.* TO 'wpuser'@'localhost' IDENTIFIED BY 'Vatih1@3' WITH GRANT OPTION;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> exit
Bye
user@ubuntu-server:~$
```

Instalasi Wordpress

Sebelum menginstall wordpress saya akan mengizinkan berkas .htaccess pada web server apache.

```
sudo nano /etc/apache2/sites-available/vatih.conf

<Directory /var/www/vatih/>
    AllowOverride All
</Directory>
```

Selanjutnya saya mengaktifkan modul mod_rewrite untuk mamanfaat fitur permalink.

```
sudo a2enmod rewrite
sudo apache2ctl configtest
sudo systemctl restart apache2
```

```
user@ubuntu-server: ~
   /etc/apache2/sites-available/vatih.conf
                                               Modified
<VirtualHost *:80>
   ServerName vatih.lan
   ServerAlias www.vatih.lan
   ServerAdmin admin@localhost
   DocumentRoot /var/www/vatih
   ErrorLog ${APACHE LOG DIR}/error.log
   CustomLog ${APACHE LOG DIR}/access.log combined
</VirtualHost>
<Directory /var/www/vatih/>
   AllowOverride All
</Directory>
^G Get Help
              ^O Write Out ^W Where Is
                                           ^K Cut Text
             ^R Read File ^\ Replace
  Exit
                                           ^U Paste Text
user@ubuntu-server: ~
ser@ubuntu-server:~$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
 systemctl restart apache2
ser@ubuntu-server:~$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the serve
r's fully qualified domain name, using 127.0.1.1. Set th
 'ServerName' directive globally to suppress this messa
Syntax OK
 ser@ubuntu-server:~$ sudo systemctl restart apache2
```

Instalasi Wordpress

Mendownload wordpress dan disimpan di direktori sementara, kemudian mengekstrak file wordpress yang tadi sudah di download.

```
cd /tmp
curl -0 https://wordpress.org/latest.tar.gz
tar xzvf latest.tar.gz
```

```
user@ubuntu-server:/tmp —
user@ubuntu-server:/tmp$ curl -0 https://wordpress.org/latest.tar.gz
user@ubuntu-server:/tmp$ tar xzvf latest.tar.gz
```

Selanjutnya kita akan copy dile yang sudah diekstrak tadi kedalam direktori yang kita gunakan dan membuat direktori /upgrade agar tidak ada masalah perizinan ketika memperbaharui software

cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php
mkdir /tmp/wordpress/wp-content/upgrade

sudo cp -a /tmp/wordpress/. /var/www/vatih

```
user@ubuntu-server:/tmp$ cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php user@ubuntu-server:/tmp$ mkdir /tmp/wordpress/wp-content/upgrade user@ubuntu-server:/tmp$ sudo cp -a /tmp/wordpress/. /var/www/vatih user@ubuntu-server:/tmp$
```

Konfigurasi Direktori Wordpress

Sebelum mengkonfigurasi direktori kita akan menyesuaikan kepemilikan dan juga izin untuk memodifikasi file.

```
sudo chown -R www-data:www-data /var/www/vatih
sudo find /var/www/vatih/ -type d -exec chmod 750 {} \;
sudo find /var/www/vatih/ -type f -exec chmod 640 {} \;
```

Kemudian kita ambil secret key api wordpress untuk mengamankan database.

https://api.wordpress.org/secret-key/1.1/salt/

Terakhir kita masukkan secret key api wordpress dan menyesesuaikan nama db, username, dan juga password yang sudah kita buat di MariaDB

sudo nano /var/www/vatih/wp-config.php

```
user@ubuntu-server:/tmp
user@ubuntu-server:/tmp$ sudo chown -R www-data:www-data /var/www/vatih
user@ubuntu-server:/tmp$ sudo find /var/www/vatih/ -type d -exec chmod 750 {} \;
user@ubuntu-server:/tmp$ sudo find /var/www/vatih/ -type f -exec chmod 640 {} \;
user@ubuntu-server:/tmp$
```

```
api.wordpress.org/secret-key/1.1/salt/
 🜀 Scoutles 🞽 Lintar Media 🤻 Sindotravel 🎧 QM Financial 🕡 Blog Cilsy : Catatan... 🕇 Data Base Penting
define('AUTH KEY',
                             '{$0lpH?/1~.n,O<2vQvy4pqj9,TGoMMq?Xe8SqGdlwpZEJ,IBeLA9-|.=iV:wO:@');
define('SECURE_AUTH_KEY',
                            'tEn{|UDzGFU`@aSLNjI;Ns-^5<+bX99ATU_2C>zs`xv|Cn<BwNL`q+9_u,h}aQc-');</pre>
define('LOGGED IN KEY',
                            'KL<Gu?`rVdm}K@>& -#!{+ajj-pdUeM-hPRJ/oVSr eN %KrL ,kzyhx2#SO#R.O');
define('NONCE_KEY',
                             '%A>f_h9mb*Yzq+Zt)C@XPtCeVSI{y-j1*$.1&4;ccx;=W?+Fk<t81^4GNq:YB0>,');
define('AUTH SALT',
                             'x6+huav1-; D7Ztr%wPBR;<;^^Ps]l=uj/s&:5= |8 kX-9Yl.|kN[KZcjq*Bc|$');
define('SECURE AUTH SALT',
                            'h3mf7<2:x:J1Lu/od+9Mr)HR^URZVGON[/6aLLSR|11gJN*-}F13=!b9iT$X1Y4M');
define('LOGGED IN SALT',
                            'h@,Sz]pqu^T9R<8&104$I+zm|h&hCobo-h9;$hU$nPD{1nd>#6i#=DrC$3(1It}&');
define('NONCE SALT',
                             '7titu^ZSl>~>^JQ9Ya9<d^-9n{epK~Xwer1{@CBK$)Z8H<=T@&:{X]aRK7 >`Uf7');
 fine( 'DB_HOST', 'localhost' );
                                               ine('SECURE AUTH SALT', 'h3mf7<2:x:Jllu/od+9Mr)HR^URZVG0N[/6aLLSR|11gJN*-}F13
 fine( 'DB_CHARSET', 'utf8' );
```

Konfigurasi Direktori Wordpress

Sebelum mengkonfigurasi direktori kita akan menyesuaikan kepemilikan dan juga izin untuk memodifikasi file.

```
sudo chown -R www-data:www-data /var/www/vatih
sudo find /var/www/vatih/ -type d -exec chmod 750 {} \;
sudo find /var/www/vatih/ -type f -exec chmod 640 {} \;
```

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https://api.wordpress.org/secret-key/1.1/salt/

Terakhir kita masukkan secret key api wordpress dan menyesesuaikan nama db, username, dan juga password yang sudah kita buat di MariaDB

sudo nano /var/www/vatih/wp-config.php

```
user@ubuntu-server:/tmp
user@ubuntu-server:/tmp$ sudo chown -R www-data:www-data /var/www/vatih
user@ubuntu-server:/tmp$ sudo find /var/www/vatih/ -type d -exec chmod 750 {} \;
user@ubuntu-server:/tmp$ sudo find /var/www/vatih/ -type f -exec chmod 640 {} \;
user@ubuntu-server:/tmp$
```

```
api.wordpress.org/secret-key/1.1/salt/
 🜀 Scoutles 🞽 Lintar Media 🤻 Sindotravel 🎧 QM Financial 🕡 Blog Cilsy : Catatan... 🕇 Data Base Penting
define('AUTH KEY',
                             '{$0lpH?/1~.n,O<2vQvy4pqj9,TGoMMq?Xe8SqGdlwpZEJ,IBeLA9-|.=iV:wO:@');
define('SECURE_AUTH_KEY',
                            'tEn{|UDzGFU`@aSLNjI;Ns-^5<+bX99ATU_2C>zs`xv|Cn<BwNL`q+9_u,h}aQc-');</pre>
define('LOGGED IN KEY',
                            'KL<Gu?`rVdm}K@>& -#!{+ajj-pdUeM-hPRJ/oVSr eN %KrL ,kzyhx2#SO#R.O');
define('NONCE_KEY',
                             '%A>f_h9mb*Yzq+Zt)C@XPtCeVSI{y-j1*$.1&4;ccx;=W?+Fk<t81^4GNq:YB0>,');
define('AUTH SALT',
                             'x6+huav1-; D7Ztr%wPBR;<;^^Ps]l=uj/s&:5= |8 kX-9Yl.|kN[KZcjq*Bc|$');
define('SECURE AUTH SALT',
                            'h3mf7<2:x:J1Lu/od+9Mr)HR^URZVGON[/6aLLSR|11gJN*-}F13=!b9iT$X1Y4M');
define('LOGGED IN SALT',
                            'h@,Sz]pqu^T9R<8&104$I+zm|h&hCobo-h9;$hU$nPD{1nd>#6i#=DrC$3(1It}&');
define('NONCE SALT',
                             '7titu^ZSl>~>^JQ9Ya9<d^-9n{epK~Xwer1{@CBK$)Z8H<=T@&:{X]aRK7 >`Uf7');
 fine( 'DB_HOST', 'localhost' );
                                               ine('SECURE AUTH SALT', 'h3mf7<2:x:Jllu/od+9Mr)HR^URZVG0N[/6aLLSR|11gJN*-}F13
 fine( 'DB_CHARSET', 'utf8' );
```

Finishing Wordpress

Terakhir tinggal kita setting secara manual baik itu nama website, login user & password wordpress, dan email kita untuk infirmasi yang dibutuhkan dalam mengintall wordpress.

Terima Kasih

