

การติดตั้ง NGINX , MySQL-server , PHPengine , PHPmyadmin

sudo apt update sudo apt upgrade

sudo apt install nginx -y

sudo apt install mariadb-server -y

sudo service status mariadb-service (เช็คสถานะ)

install PHP and MariaDB (mySQL-server)

- sudo apt install software-properties-common -y
- sudo add-apt-repository ppa:ondrej/php
- sudo apt install php7.4-fpm php7.4-common php7.4-dom php7.4-intl php7.4-mysql
php7.4-xml php7.4-xmlrpc php7.4-curl php7.4-gd php7.4-imagick php7.4-cli php7.4-dev
php7.4-imap php7.4-mbstring php7.4-soap php7.4-zip php7.4-bcmath -y
- systemctl status php7.4-fpm
- sudo apt-key adv --fetch-keys 'https://mariadb.org/mariadb_release_signing_key.asc'
- sudo add-apt-repository 'deb [arch=amd64,arm64,ppc64el]
http://mirror.nodesdirect.com/mariadb/repo/10.4/ubuntu bionic main'

Install PHPMyAdmin

- wget -c <https://files.phpmyadmin.net/phpMyAdmin/5.0.2/phpMyAdmin-5.0.2-english.tar.gz>
- tar xzvf phpMyAdmin-5.0.2-english.tar.gz
- sudo mv phpMyAdmin-5.0.2-english /usr/share/phpMyAdmin
- sudo ln -s /usr/share/phpmyadmin /var/www/html

M A

ลิงค์

Config NGINX

- `sudo nano /etc/nginx/sites-available/default`

เพิ่มเข้าไปใน code

`index index.php index.html index.htm;` (แก้ตรงนี้ด้วย)

```
location ~ \.php$ {
```

```
    try_files $fastcgi_script_name =404;
```

```
    include fastcgi_params;
```

```
    fastcgi_pass unix:/run/php/php7.4-fpm.sock;
```

```
    fastcgi_index index.php;
```

```
    fastcgi_param DOCUMENT_ROOT $realpath_root;
```

```
    fastcgi_param SCRIPT_FILENAME $realpath_root$fastcgi_script_name;
```

```
}
```

- `nginx -t`
- `systemctl restart nginx`
- `systemctl status nginx`

~~ก่อนจะเข้า~~ web phpMyAdmin ทำการ `sudo reboot` ก่อน 1 รอบ

`http://_____/phpMyAdmin`

ลองเข้าก่อนบางทีอาจจะได้เลย เพราะ `sudo reboot` ก็หละหลวม

การ Config สร้าง User ให้กับ phpmyadmin

sudo mysql_secure_installation

ใส่ รหัส password ตัวเอง

ต่อไปนี่คือตอบคำถามให้ตอบตามนี้

y

n

y

y

y

y

sudo mysql -u root -p

CREATE USER 'jakapat'@'localhost' IDENTIFIED BY 'jakapat';

- สร้าง User ตัวเอง

Username

password

GRANT ALL PRIVILEGES ON . TO 'jakapat'@'localhost';

- สร้างสิทธิให้ตัว user . มีสิทธิ คล้ายๆ root

.

ให้สิทธิ์ทุกอย่างไม่ได้

FLUSH PRIVILEGES; ทำทุกครั้ง เวลาใส่คำสั่ง

quit; ออก

sudo systemctl restart mariadb.service รีตาร์ทมันด้วย

sudo reboot เพื่อไว้ด้วย

อาจไม่จำเป็น แนะนำให้รีสตาร์ท

การติดตั้ง FTP Server

โปรแกรมที่ใช้: winscp

```
sudo apt-get install vsftpd
```

```
sudo mv /etc/vsftpd.conf /etc/vsftpd.conf_orig
```

```
sudo nano /etc/vsftpd.conf
```

config in vsftpd.conf

```
listen=NO
```

```
listen_ipv6=YES
```

```
anonymous_enable=NO
```

```
local_enable=YES
```

```
write_enable=YES
```

```
local_umask=022
```

```
dirmessage_enable=YES
```

```
use_localtime=YES
```

```
xferlog_enable=YES
```

```
connect_from_port_20=YES
```

```
chroot_local_user=YES
```

```
secure_chroot_dir=/var/run/vsftpd/empty
```

```
pam_service_name=vsftpd
```

```
rsa_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
```

```
rsa_private_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
```

```
ssl_enable=NO
```

```
pasv_enable=Yes
```

```
pasv_min_port=10000
```

```
pasv_max_port=10100
```

```
allow_writeable_chroot=YES
```

```
local_root=
```

```
sudo ufw allow from any to any port 20,21,10000:10010 proto tcp
```

```
sudo systemctl restart vsftpd
```

```
sudo systemctl status vsftpd
```

DNS Server

```
sudo apt-get update
```

```
sudo apt-get upgrade
```

```
sudo apt-get dist-upgrade
```

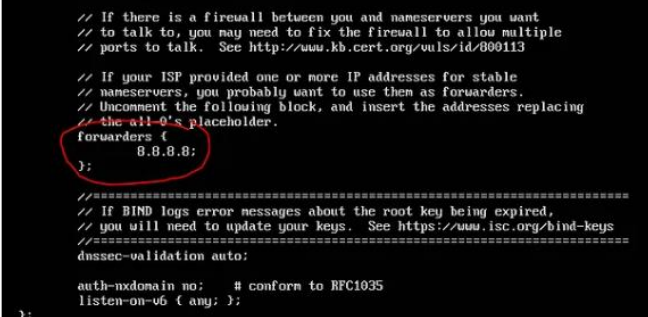
```
sudo apt-get install bind9 bind9utils bind9-doc
```

```
sudo nano /etc/bind/named.conf.options
```

```
forwarders {
```

```
8.8.8.8;
```

```
};
```



```
// If there is a firewall between you and nameservers you want
// to talk to, you may need to fix the firewall to allow multiple
// ports to talk.  See http://www.kb.cert.org/vuls/id/800113

// If your ISP provided one or more IP addresses for stable
// nameservers, you probably want to use them as forwarders.
// Uncomment the following block, and insert the addresses replacing
// the all-0's placeholder.
forwarders {
    8.8.8.8;
};

//=====
// If BIND logs error messages about the root key being expired,
// you will need to update your keys.  See https://www.isc.org/bind-keys
//=====
dnssec-validation auto;

auth-nxdomain no;    # conform to RFC1035
listen-on-v6 { any; };
```

```
sudo systemctl restart bind9
```

```
dig -x 127.0.0.1
```

sudo nano /etc/bind/named.conf มีอยู่แล้วไม่ต้องแก้

```
include "/etc/bind/named.conf.options";  
  
include "/etc/bind/named.conf.local";  
  
include "/etc/bind/named.conf.default-zones";
```

sudo nano /etc/bind/named.conf.local

```
zone "jakapatgust.com" {  
  
    type master;  
  
    file "/etc/bind/for.jakapatgust.com";  
  
    allow-transfer { 192.168.1.6; };  
  
    also-notify { 192.168.1.6; };  
  
};  
  
zone "1.168.192.in-addr.arpa" {  
  
    type master;  
  
    file "/etc/bind/rev.jakapatgust.com";  
  
    allow-transfer { 192.168.1.6; };  
  
    also-notify { 192.168.1.6; };  
  
};
```

sudo nano /etc/bind/for.jakapatgust.com

\$TTL 86400

@ IN SOA pri.jakapatgust.com. root.jakapatgust.com. (

2011071001 ;Serial

3600 ;Refresh

1800 ;Retry

604800 ;Expire

86400 ;Minimum TTL

)

@ IN NS pri.jakapatgust.com.

@ IN A 192.168.1.6

~~@ IN A 192.168.1.6~~

pri IN A 192.168.1.6 ipPC

client IN A 192.168.1.6

www IN A 192.168.1.6 PC

sudo nano /etc/bind/rev.jakapatgust.com

\$TTL 86400

@ IN SOA pri.jakapatgust.com. root.jakapatgust.com. (

2011071002 ;Serial

3600 ;Refresh

1800 ;Retry

604800 ;Expire

86400 ;Minimum TTL

)

@ IN NS pri.jakapatgust.com.

@ IN PTR jakapatgust.com.

pri IN A 192.168.1.6

client IN A 192.168.1.6 PC

6 IN PTR pri.jakapatgust.com.

6 IN PTR client.jakapatgust.com.
PC

sudo chmod -R 755 /etc/bind

sudo chown -R bind:bind /etc/bind

sudo named-checkzone jakapatgust.com /etc/bind/for.jakapatgust.com

sudo named-checkzone jakapatgust.com /etc/bind/rev.jakapatgust.com

sudo nano /etc/network/interfaces

```
source /etc/network/interface.d/*
```

```
auto lo
```

```
iface lo inet loopback
```

```
auto ens33
```

```
iface ens33 inet static
```

```
    address 192.168.1.6
```

```
    netmask 255.255.255.0
```

```
    network 192.168.1.0
```

```
    broadcast 192.168.1.255
```

```
    gateway 192.168.1.1
```

```
    dns-nameservers 192.168.1.6
```

sudo /etc/init.d/networking restart

sudo systemctl restart bind9

!!!!!!! อย่าล้าง cache ใน google chrome ด้วย หรือ ไปใน Microsoft edge

Shell Scirpt

สร้าง user 100 คน ให้ไปอยู่ใน กลุ่ม Engineer (แบบ useradd)

groupadd Engineer

sudo nano create_users.sh

```
#!/bin/bash

for ((i=1; i<=100; i++))

do

    username="user$i"

    password="password$i"

    sudo useradd -m -p $(openssl passwd -1 $password) $username

    sudo usermod -aG Engineer $username

    echo "Created user: $username - Password: $password"

done

ls -la
```

sudo chmod +x create_users.sh

./create_users.sh

ลบ User 100 คน

sudo nano delete_users.sh

```
#!/bin/bash

for ((i=1; i<=100; i++))

do

    username="user$i"

    sudo userdel -r $username

    echo "Deleted user: $username"

done

ls -la
```

sudo chmod +x delete_users.sh

./delete_users.sh

สร้าง user 100 คน ให้ไปอยู่ใน กลุ่ม Engineer (แบบ adduser)

sudo nano create_byadduser.sh

```
#!/bin/bash
```

```
for ((i=1; i<=100; i++))
```

```
do
```

```
    username="user$i"
```

```
    password="password$i"
```

```
    sudo adduser --disabled-password --gecos "" $username
```

```
    echo "$username:$password" | sudo chpasswd
```

```
    sudo usermod -aG Engineer $username
```

```
    echo "Created user: $username - Password: $password"
```

```
done
```

```
ls -la
```

sudo chmod +x create_byadduser.sh

./create_byadduser.sh

สร้าง User 100 คน

sudo nano create.sh

```
#!/bin/bash
```

```
for ((i=1; i<=100; i++))
```

```
do
```

```
    username="user$i"
```

```
    password="password$i"
```

```
    sudo useradd -m -p $(openssl passwd -1 $password) $username
```

```
    echo "Created user: $username - Password: $password"
```

```
done
```

```
ls -la
```

sudo chmod +x create.sh

sudo ./create.sh

สร้าง User 100 โดยไม่ต้องมี Directory

Sudo nano test_user.sh

```
for ((i=1; i<=100; i++))
```

```
do
```

```
    username="user$i"
```

```
    password="password$i"
```

```
    sudo useradd -p $(openssl passwd -1 $password) $username
```

```
    echo "Created user: $username - Password: $password"
```

```
done
```

sudo chmod +x test_user.sh

./test_user.sh

for ((i=2; i<=100; i+=2)) ต้องการสร้าง จำนวนคู่

for ((i=1; i<=100; i+=2)) ต้องการสร้าง จำนวนคี่