

LANGKAH – LANGKAH INSTALASI MOODLE

1. Masuk root mode

- a. Buka PowerShell (Windows/Cloud Shell)
- b. SSH ke Virtual Machine dengan username dan ip address yang telah dibuat

```
$ ssh <username>@<public ip>
```
- c. Masukkan password
- d. Ubah root password dengan command berikut

```
$ sudo passwd root <enter>
```
- e. Masukkan password root yang diinginkan
- f. Masuk ke mode root dengan command berikut

```
$ su <enter>
```
- g. Masukkan password root

2. Install Nginx

- a. Update OS VM dengan command berikut

```
$ apt update; apt upgrade -y
```
- b. Install Nginx dengan command berikut

```
$ apt install nginx -y
```

3. Install MariaDB

- a. Install MariaDB server dengan command berikut

```
$ apt install mariadb-server -y
```
- b. Amankan instalasi MariaDB dengan command berikut

```
$ mysql_secure_installation
```
- c. Jawab pertanyaan yang diberikan
Enter current password for root (enter for none): ENTER
Switch to unix_socket authentication [Y/n] n
Set root password? [Y/n] y
Remove anonymous users? [Y/n] y
Disallow root login remotely? [Y/n] y
Remove test database and access to it? [Y/n]
y

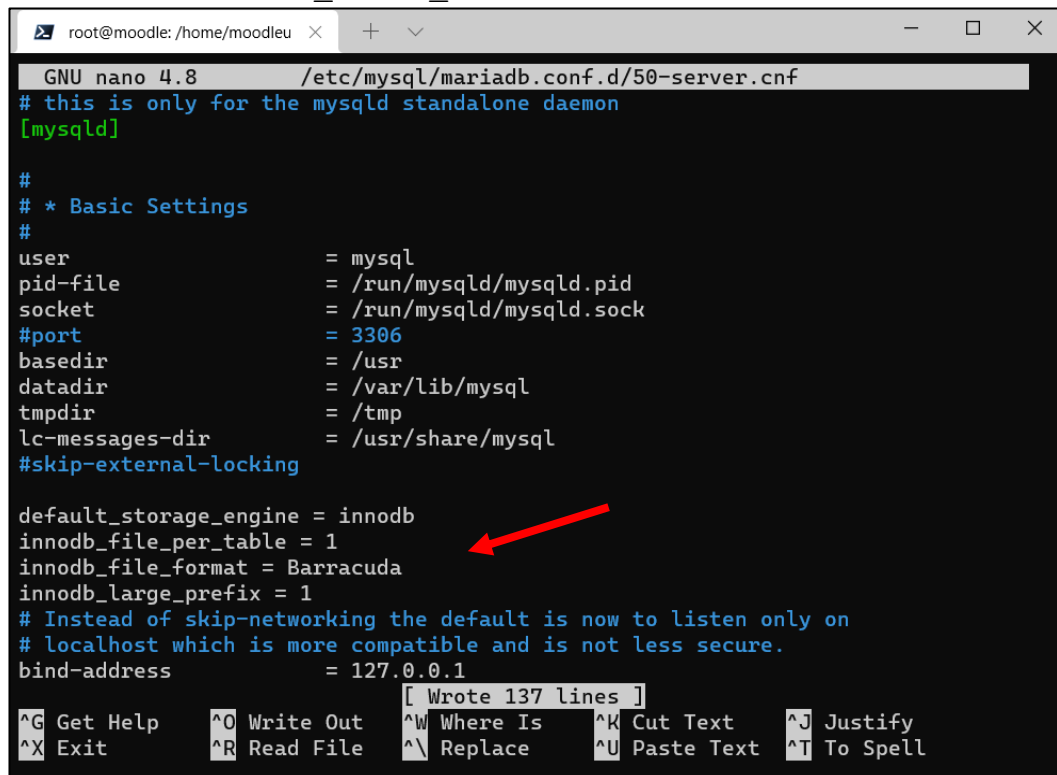
```
Reload privilege tables now? [Y/n] y
```

- d. Konfigurasi MariaDB server dengan command berikut

```
$ nano /etc/mysql/mariadb.conf.d/50-server.cnf
```

- e. Tambahkan kode berikut di bawah **[mysqld]**

```
default_storage_engine = innodb
innodb_file_per_table = 1
innodb_file_format = Barracuda
innodb_large_prefix = 1
```



```
GNU nano 4.8 /etc/mysql/mariadb.conf.d/50-server.cnf
# this is only for the mysqld standalone daemon
[mysqld]

#
# * Basic Settings
#
user                 = mysql
pid-file             = /run/mysqld/mysqld.pid
socket               = /run/mysqld/mysqld.sock
#port                = 3306
basedir              = /usr
datadir              = /var/lib/mysql
tmpdir               = /tmp
lc-messages-dir      = /usr/share/mysql
#skip-external-locking

default_storage_engine = innodb
innodb_file_per_table = 1
innodb_file_format = Barracuda
innodb_large_prefix = 1
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address         = 127.0.0.1

[ Wrote 137 lines ]
^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify
^X Exit      ^R Read File  ^_ Replace   ^U Paste Text ^T To Spell
```

- f. Restart MariaDB

```
$ systemctl restart mariadb; systemctl status mariadb
```

- g. Login ke MariaDB

```
$ mysql -u root -p
```

- h. Buat database baru dan akses ke database

```
CREATE DATABASE moodle DEFAULT CHARACTER SET
utf8mb4 COLLATE utf8mb4_unicode_ci;
CREATE USER 'usrmoodle'@'localhost'
IDENTIFIED BY 'secret';
```

```
GRANT ALL PRIVILEGES ON moodle.* TO
'usrmoodle'@'localhost';
FLUSH PRIVILEGES;
exit
```

4. Install PHP-FPM

a. Install PHP-FPM

```
$ apt install php-fpm php-common php-pspell
php-curl php-gd php-intl php-mysql php-xml
php-xmlrpc php-ldap php-zip php-soap php-
mbstring -y
```

b. Konfigurasi php.ini

```
$ nano /etc/php/7.4/fpm/php.ini
```

c. Ubah bagian konfigurasi berikut

```
max_input_vars = 6000
memory_limit = 256M
upload_max_filesize = 64M
post_max_size = 64M
max_execution_time = 360
max_input_time = 360
cgi.fix_pathinfo = 0
date.timezone = Asia/(Jakarta, Makassar)
```

Note: untuk mempermudah pencarian gunakan ctrl + w. jangan lupa untuk menghilangkan ';' disamping kiri kode.

d. Restart PHP-FPM

```
$ systemctl restart php7.4-fpm; systemctl
status php7.4-fpm
```

5. Download Moodle

a. Download moodle dengan wget

```
$ wget
https://download.moodle.org/download.php/dire
```

```
ct/stable311/moodle-latest-311.tgz; tar xzvf
moodle-latest-311.tgz
```

b. Buat folder untuk moodle

```
$ mkdir -p /var/www/moodle/data;
mv moodle /var/www/moodle/web;
chown -R www-data:www-data /var/www/moodle;
chmod -R 755 /var/www/moodle
```

c. Konfigurasi Nginx block untuk SUBDOMAIN

```
cd /etc/nginx/conf.d; nano <SUBDOMAIN>.conf
```

d. Masukkan konfigurasi dibawah ini

```
server {
    listen 80;

    server_name <SUBDOMAIN>;
    root /var/www/moodle/web;
    index index.php index.html index.htm;


    location / {
        try_files $uri $uri/ /index.php?$query_string;
    }


    location /dataroot/ {
        internal;
        alias /var/www/moodle/data;
    }


    location ~ [^/]\.php(/|$) {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/run/php/php7.4-fpm.sock;
        fastcgi_param                SCRIPT_FILENAME
$document_root$fastcgi_script_name;
        include fastcgi_params;
    }
}
```

```
}
```

e. restart nginx

```
$ nginx -t; systemctl restart nginx; systemctl  
status nginx
```

6. Install SSL

```
$ apt install snapd  
$ sudo snap install core; sudo snap refresh core  
$ sudo snap install --classic certbot  
$ sudo ln -s /snap/bin/certbot /usr/bin/certbot  
$ sudo certbot --nginx -d <SUBDOMAIN>  
$ sudo certbot renew --dry-run
```