

Instalasi Snipe IT Manajemen Asset TIK pada Ubuntu 22

Sebelum mencoba untuk menginstall Snipe IT, periksa terlebih dahulu apakah pada server sudah terinstall Apache, PHP 8, dan MySQL, Cara Install Dapat Di Lihat [Disini](#)

PRE-REQUISITE

check LAMP stack dengan command ini:

```
php -v
```

```
root@Manajemen-Aset-TIK:~# php -v
PHP 8.1.2-1ubuntu2.18 (cli) (built: Jun 14 2024 15:52:55) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
    with Zend OPcache v8.1.2-1ubuntu2.18, Copyright (c), by Zend Technologies
root@Manajemen-Aset-TIK:~#
```

check apache berjalan pada server:

```
sudo systemctl status apache2
```

```

root@Manajemen-Aset-TIK:~# sudo systemctl status apache2
* apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2024-08-18 09:19:01 UTC; 4min 29s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 21781 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 21785 (apache2)
    Tasks: 7 (limit: 18991)
   Memory: 12.8M
      CPU: 88ms
   CGroup: /system.slice/apache2.service
           |-21785 /usr/sbin/apache2 -k start
           |-21786 /usr/sbin/apache2 -k start
           |-21787 /usr/sbin/apache2 -k start
           |-21788 /usr/sbin/apache2 -k start
           |-21789 /usr/sbin/apache2 -k start
           |-21790 /usr/sbin/apache2 -k start
           `--21794 /usr/sbin/apache2 -k start

Aug 18 09:19:01 Manajemen-Aset-TIK systemd[1]: Starting The Apache HTTP Server...
Aug 18 09:19:01 Manajemen-Aset-TIK systemd[1]: Started The Apache HTTP Server.
root@Manajemen-Aset-TIK:~# █

```

check MySQL berjalan pada server:

```
sudo systemctl status mysql
```

```

root@Manajemen-Aset-TIK:~# sudo systemctl status mysql
* mariadb.service - MariaDB 10.6.18 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2024-08-18 09:05:43 UTC; 19min ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
  Main PID: 13906 (mariadb)
    Status: "Taking your SQL requests now..."
     Tasks: 8 (limit: 125344)
    Memory: 63.5M
       CPU: 476ms
   CGroup: /system.slice/mariadb.service
           `--13906 /usr/sbin/mariadb

Aug 18 09:05:42 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:42 0 [Note] InnoDB: File './ibtmp1' size is now 12 MB.
Aug 18 09:05:42 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:42 0 [Note] InnoDB: 10.6.18 started; log sequence number 423
Aug 18 09:05:42 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:42 0 [Note] Plugin 'FEEDBACK' is disabled.
Aug 18 09:05:42 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:42 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql
Aug 18 09:05:42 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:42 0 [Note] InnoDB: Buffer pool(s) load completed at 240818
Aug 18 09:05:43 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:43 0 [Warning] You need to use --log-bin to make --expire-l
Aug 18 09:05:43 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:43 0 [Note] Server socket created on IP: '127.0.0.1'.
Aug 18 09:05:43 Manajemen-Aset-TIK mariadb[13906]: 2024-08-18 9:05:43 0 [Note] /usr/sbin/mariadb: ready for connections.
Aug 18 09:05:43 Manajemen-Aset-TIK mariadb[13906]: Version: '10.6.18-MariaDB-0ubuntu0.22.04.1' socket: '/run/mysqld/mysqld.sock'
Aug 18 09:05:43 Manajemen-Aset-TIK systemd[1]: Started MariaDB 10.6.18 database server.
lines 1-23/23 (END)

```

gunakan ctrl + x untuk keluar dari command mysql

INSTALLASI

```
sudo apt update && sudo apt upgrade -y
```

Install Package dan PHP extension yang diperlukan oleh Snipe IT

```
sudo apt install -y openssl curl git wget zip vim php-opcache php-pdo php-bcmath php-calendar php-ctype php-fileinfo php-ftp php-gd php-intl php-json php-ldap php-mbstring php-mysqli php-posix php-readline php-sockets php-bz2 php-tokenizer php-zip php-curl php-iconv php-phar
```

check IP lokal pada server dengan command: `ifconfig` jika net-tools ada terinstall pada server atau gunakan command `ip a`

```
root@Manajemen-Aset-TIK:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0@if25: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether bc:24:11:12:8d:01 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 172.16.0.249/24 metric 1024 brd 172.16.0.255 scope global dynamic eth0
        valid_lft 385sec preferred_lft 385sec
    inet6 fe80::be24:11ff:fe12:8d01/64 scope link
        valid_lft forever preferred_lft forever
root@Manajemen-Aset-TIK:~#
```

download dan install composer dengan command

```
sudo curl -sS https://getcomposer.org/installer | php
```

jika selesai download akan ada prompt bahwa composer berhasil di install

```
root@Manajemen-Aset-TIK:~# sudo curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

Composer (version 2.7.7) successfully installed to: /root/composer.phar
Use it: php composer.phar
root@Manajemen-Aset-TIK:~#
```

check apakah sudah terinstall dengan command `ls` atau `ll`

```
root@Manajemen-Aset-TIK:~# ls
composer.phar
root@Manajemen-Aset-TIK:~#
```

pindahkan file tadi menuju directory `/usr/local/bin/composer`

```
sudo mv composer.phar /usr/local/bin/composer
```

periksa lagi menggunakan `ls /usr/local/bin/`

```
root@Manajemen-Aset-TIK:~# ls /usr/local/bin/
composer
root@Manajemen-Aset-TIK:~#
```

BUAT DATABASE

buat database dengan login ke MySQL dengan command

```
sudo mysql -uroot -p
```

masukan password MySQL yang sudah kita buat saat instalasi LAMP

```
root@Manajemen-Aset-TIK:~# sudo mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 40
Server version: 10.6.18-MariaDB-0ubuntu0.22.04.1 Ubuntu 22.04
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)]> 
```

Pakai Perintah Di Bawah untuk membuat database, Ganti tulisan berwarna merah dengan data sesuai yang diinginkan

```
CREATE DATABASE NamaDatabase;
```

```
CREATE USER UserDataBase@localhost IDENTIFIED BY 'PasswordDatabase';
```

```
GRANT ALL ON NamaDatabase.* to UserDataBase@localhost;
```

```
FLUSH PRIVILEGES;
```

lalu exit dengan mengetik `exit;`

masuk ke directory `/var/www/html` dengan command `cd`

```
cd /var/www/html
```

check jika sudah masuk menggunakan command `pwd` atau `ls` lalu download versi terbaru dari Snipe IT

```
sudo git clone https://github.com/snipe/snipe-it snipe-it
```

periksa dengan `ls` jika file sudah terdownload

```

MariaDB [(none)]> exit;
Bye
root@Manajemen-Aset-TIK:~# sudo git clone https://github.com/snipe/snipe-it snipe-it
Cloning into 'snipe-it'...
remote: Enumerating objects: 196725, done.
remote: Counting objects: 100% (4873/4873), done.
remote: Compressing objects: 100% (1958/1958), done.
remote: Total 196725 (delta 3039), reused 4532 (delta 2836), pack-reused 191852 (from 1)
Receiving objects: 100% (196725/196725), 208.24 MiB | 15.78 MiB/s, done.
Resolving deltas: 100% (129974/129974), done.
Updating files: 100% (7283/7283), done.
root@Manajemen-Aset-TIK:~# ls
snipe-it
root@Manajemen-Aset-TIK:~#

```

lalu masuk kedalam file directory yang sudah terdownload tadi menggunakan

```
cd snipe-it
```

copy file .env.example ke .env dengan command

```
cp .env.example .env
```

setelah itu cari file .env dengan command `ls -a`

edit file .env tersebut dengan menggunakan nano

```
sudo nano .env
```

```

1 # -----
2 # REQUIRED: BASIC APP SETTINGS
3 # -----
4 APP_ENV=production
5 APP_DEBUG=false
6 APP_KEY=ChangeMe
7 APP_URL=null
8 APP_TIMEZONE='UTC'
9 APP_LOCALE='en-US'
10 MAX_RESULTS=500
11
12 # -----
13 # REQUIRED: UPLOADED FILE STORAGE SETTINGS
14 # -----
15 PRIVATE_FILESYSTEM_DISK=local
16 PUBLIC_FILESYSTEM_DISK=local_public
17
18 #PRIVATE_FILESYSTEM_DISK=s3_private
19 #PUBLIC_FILESYSTEM_DISK=s3_public
20
21
22 # -----
23 # REQUIRED: DATABASE SETTINGS
24 # -----

```

APP_URL=http://IP-Server
or
APP_URL=Your-Domain

ganti APP_URL=null dengan domain atau dengan ip lokal dari server contoh
http://tik,murungrayakab.go.id atau http://172.000.000.000

ganti APP_TIMEZONE='UTC' dengan zona waktu indonesia APP_TIMEZONE='Asia/Jakarta'

ganti konfigurasi database dengan database yang baru kita buat tadi

```
20
21
22 # -----
23 # REQUIRED: DATABASE SETTINGS
24 # -----
25 DB_CONNECTION=mysql
26 DB_HOST=127.0.0.1
27 DB_PORT=3306
28 DB_DATABASE=null
29 DB_USERNAME=null
30 DB_PASSWORD=null
31 DB_PREFIX=null
32 DB_DUMP_PATH='/usr/bin'
33 DB_CHARSET=utf8mb4
34 DB_COLLATION=utf8mb4_unicode_ci
35
36 # -----
37 # OPTIONAL: SSL DATABASE SETTINGS
```

gunakan ctrl+o untuk save dan enter, lalu tekan ctrl+x untuk keluar dari nano

INSTALL COMPOSER

```
sudo composer update --no-plugins --no-scripts
```

ketik yes untuk konfirmasi

```
hg@ttc02:/var/www/html/snipe-it$ sudo composer update --no-plugins --no-scripts
Do not run Composer as root/super user! See https://getcomposer.org/doc/04-runtime.md#sudo
Continue as root/super user [yes]? yes
```

← Type Yes and hit Enter

```
sudo composer install --no-dev --prefer-source --no-plugins --no-scripts
```

ketik yes untuk konfirmasi

```
hg@ttc02:/var/www/html/snipe-it$ sudo composer install --no-dev --prefer-source --no-plugins --no-scripts
[sudo] password for hg:
Do not run Composer as root/super user! See https://getcomposer.org/doc/04-runtime.md#sudo
Continue as root/super user [yes]? yes
```

← Type Yes and hit Enter

```
sudo php artisan key:generate
```

```
- Removing amphp/amp (v2.6.4)
Package laravelcollective/html is abandoned, you should avoid using it. Use spatie/laravel-html instead.
Generating optimized autoload files
89 packages you are using are looking for funding.
Use the 'composer fund' command to find out more!
root@Manajemen-Aset-TIK:~/snipe-it# sudo php artisan key:generate
```

APPLICATION IN PRODUCTION.

Are you sure you want to run this command?

0 Yes / ● No

tekan tab untuk mengubah pilihan dari No menjadi Yes, lalu tekan enter

Are you sure you want to run this command?

Yes

INFO Application key set successfully.

root@Manajemen-Aset-TIK:~/snipe-it#

mundur satu directory dari folder dimana kita berada sekarang `cd ..`

lalu ubah permission dari folder html dengan menggunakan command

```
sudo chown -R www-data:www-data snipe-it/
```

```
sudo chmod -R 755 snipe-it/
```

gunakan command `ll` untuk mengecek permission dari folder yang sudah kita rubah

```
root@Manajemen-Aset-TIK:~# ll
total 41
drwx----- 6 root    root    10 Aug 18 09:55 ./
drwxr-xr-x 17 root    root    23 Aug 18 08:35 ../
-rw-r--r--  1 root    root   3106 Oct 15  2021 .bashrc
drwx----- 2 root    root     3 Aug 18 08:39 .cache/
drwxr-xr-x  3 root    root     3 Aug 18 09:33 .config/
-rw-----  1 root    root    20 Aug 18 09:25 .lessht
drwxr-xr-x  3 root    root     3 Aug 18 09:18 .local/
-rw-----  1 root    root   205 Aug 18 09:52 .mysql_history
-rw-r--r--  1 root    root   161 Jul  9  2019 .profile
drwxr-xr-x 18 www-data www-data 66 Aug 18 10:05 snipe-it/
root@Manajemen-Aset-TIK:~#
```

konfigurasi virtual host apache dengan command

```
sudo nano /etc/apache2/sites-available/tik.murungrayakab.go.id.conf
```

tambahkan script dibawah untuk referensi

|

```
<VirtualHost *:80>
  ServerName localhost
  DocumentRoot /var/www/html/snipe-it/public
  <Directory /var/www/html/snipe-it/public>
    Options Indexes FollowSymLinks MultiViews
    AllowOverride All
    Order allow,deny
    Allow from all
  </Directory>
</VirtualHost>
```

ketik ctrl+o lalu enter untuk save, dan ctrl+x untuk keluar

aktifkan virtualhost yang sudah dibuat tadi dengan command:

```
sudo a2ensite tik.murungrayakab.go.id.conf
```

matikan default config apache dengan command

```
sudo a2dissite 000-default.conf
```

mengaktifkan modul rewrite di Apache pada sistem. Modul rewrite ini penting untuk membuat aturan URL yang dinamis dan mengelola URL redirection.

```
sudo a2enmod rewrite
```

lalu restart apache

```
sudo systemctl reload apache2
```

jika ingin menggunakan reverse proxy dan subdomain

pastikan sudah mengganti APP_TRUSTED_PROXIES dengan IP reverse LOKAL/PUBLIK pada file .env


```
# -----  
# OPTIONAL: SECURITY HEADER SETTINGS  
# -----  
APP_TRUSTED_PROXIES=172.16.0.161,10.0.0.1  
ALLOW_IFRAMING=false  
REFERRER_POLICY=same-origin  
ENABLE_CSP=false  
ADDITIONAL_CSP_URLS=null  
CORS_ALLOWED_ORIGINS=null  
ENABLE_HSTS=false
```

Revision #10

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