

# Snipe IT

- Installasi dan manajemen aset TIK menggunakan Snipe IT
- [Installasi Snipe IT Manajemen Asset TIK pada Ubuntu 22](#)

# 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
```