

Snipe-IT

- [SnipeIT - Background](#)
- [SnipeIT - Prerequisites Recommended](#)
- [SnipeIT - Install SnipeIT](#)

SnipeIT - Background

Snipe-IT adalah aplikasi **open source IT Asset Management (ITAM)** yang digunakan untuk mencatat, mengelola, dan melacak aset perusahaan, seperti **hardware, software, lisensi, peripheral, dan kontrak**.

Aplikasi ini berbasis web (web-based) sehingga bisa diakses melalui browser, baik di server lokal maupun cloud.

Fitur Utama Snipe-IT

- Asset Management**
 - Mencatat detail aset (serial number, merk, model, lokasi, user).
 - Tracking lifecycle dari procurement hingga disposal.
 - User & Assignment Tracking**
 - Menentukan siapa pemilik/pengguna dari suatu aset.
 - Riwayat siapa pernah menggunakan aset tersebut.
 - License Management**
 - Mencatat lisensi software (key, jumlah seat, masa berlaku).
 - Memberi peringatan sebelum lisensi habis.
 - Accessories & Consumables**
 - Melacak peripheral (keyboard, mouse, headset, charger).
 - Mengatur barang habis pakai (toner, tinta printer, baterai).
 - Audit & History**
 - Mencatat setiap perubahan (check-in, check-out, pindah lokasi).
 - Laporan histori aset secara lengkap.
 - Notification & Alert**
 - Email notifikasi untuk lisensi expired, perpanjangan kontrak, atau masa garansi.
 - API & Integrasi**
 - REST API untuk integrasi dengan sistem lain (misalnya Helpdesk, ERP).
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Arsitektur Snipe-IT

- **Backend:** PHP (Laravel framework)
 - **Database:** MySQL/MariaDB
 - **Frontend:** Web-based (HTML, JS, Bootstrap)
 - **Hosting:** Bisa di-host di server on-premises atau di Docker (containerized).
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Kelebihan

- Gratis & open source (GPL v3).
- Interface modern & mudah dipakai.
- Komunitas besar dan dokumentasi lengkap.
- Bisa multi-user (dengan role & permission).

Kekurangan

- Tidak otomatis melakukan **network discovery** (perlu input manual atau integrasi).
- Fungsinya lebih ke **asset inventory**, belum selengkap ITAM enterprise (misalnya Flexera, ServiceNow).
- Butuh setup manual di server (Linux/Windows dengan LAMP stack atau Docker).

SnipeIT - Prerequisites

Recommended

Spesification Requirement

- **CPU:** 4 core
- **RAM:** 8 GB
- **Disk:** 250 GB (SSD lebih baik)
- **Operating System** : Ubuntu Server 24.04 (64-bit)
- **Database:** mariadb Ver 15.1 Distrib 10.11.13-MariaDB, for debian-linux-gnu (x86_64)

Dependencies Snipe-IT (latest version) di Ubuntu 24.04

1. Web Server

- Nginx Stable Version.

2. PHP (versi 8.2 - 8.4) dengan extension :

```
php-bcmath
php-ctype
php-curl
php-dom
php-gd
php-iconv
php-json
php-mbstring
php-mysql
php-openssl
php-tokenizer
php-xml
php-zip
```

3. Database

- Mariadb Ver 15.1 Distrib 10.11.13-MariaDB, for debian-linux-gnu (x86_64)
- Pastikan ada user & database khusus untuk Snipe-IT.

4. Composer

- Dependency manager untuk PHP (wajib untuk install paket Laravel).

5. Git

6. Dependencies tambahan

software-properties-common

unzip

curl

zip

nano

SnipeIT - Install SnipeIT

1. Pastikan server ubuntu sudah mempunyai koneksi internet.
2. Pastikan Ubuntu yang digunakan LTS.

```
lsb_release -a
```

Output OS Ubuntu version.

```
No LSB modules are available.  
Distributor ID: Ubuntu  
Description:   Ubuntu 24.04.3 LTS  
Release:      24.04  
Codename:     noble
```

3. Update dan Upgrade Ubuntu 24.04.

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

4. Install Dependencies.

```
apt install software-properties-common -y  
apt install curl -y  
apt install unzip -y  
apt install zip -y  
apt install nano -y
```

5. Install PHP 8.4.

```
add-apt-repository ppa:ondrej/php -y  
apt update  
apt install -y php8.4 php8.4-bcmath php8.4-common php8.4-ctype php8.4-curl php8.4-fileinfo php8.4-fpm php8.4-gd php8.4-intl php8.4-mbstring php8.4-mysql php8.4-soap php8.4-xml php8.4-xsl php8.4-zip php8.4-cli
```

6. Cek Version

```
php -v
```

Output PHP version.

```
PHP 8.4.11 (cli) (built: Aug 3 2025 08:42:27) (NTS)
Copyright (c) The PHP Group
Built by Debian
Zend Engine v4.4.11, Copyright (c) Zend Technologies
with Zend OPcache v8.4.11, Copyright (c), by Zend Technologies
```

7. Install Composer.

```
wget -O composer-setup.php https://getcomposer.org/installer
php composer-setup.php --install-dir=/usr/local/bin --filename=composer
```

8. Cek Version

```
composer -V
```

Output Composer version.

```
Composer version 2.8.11 2025-08-21 11:29:39
PHP version 8.4.11 (/usr/bin/php8.4)
Run the "diagnose" command to get more detailed diagnostics output.
```

9. Install MariaDB Server & Client.

```
apt install mariadb-server mariadb-client -y
```

10. Cek Version

```
mariadb -V
```

Output MariaDB version.

```
mariadb Ver 15.1 Distrib 10.11.13-MariaDB, for debian-linux-gnu (x86_64) using EditLine wrapper
```

11. Create Database.

```
mysql
```

```
mysql> CREATE DATABASE db_snipeit;
mysql> GRANT ALL on db_snipeit.* to user_snipeit@localhost identified by 'ilusidigital.com';
mysql> FLUSH PRIVILEGES;
mysql> \q
```

12. Create Folder & Download Snipe-IT (Versi yang diunduh tergantung pada yang ingin diinstal.)

```
mkdir -p /var/www/
cd /var/www/
```

```
wget https://github.com/grokability/snipe-it/archive/refs/tags/v8.2.1.zip
unzip v8.2.1.zip
mv snipe-it-8.2.1 snipe-it
cd snipe-it
cp .env.example .env
nano .env
```

13. Basic & Simple Config .env

```
APP_URL=https://assets.ilusidigital.com
APP_TIMEZONE=Asia/Jakarta
#
DB_DATABASE=db_snipeit
DB_USERNAME=user_snipeit
DB_PASSWORD=ilusidigital.com
```

14. Change Ownership.

```
chown -R nginx:nginx /var/www/snipe-it
```

15. Update Dependencies Composer & Laravel.

```
cd /var/www/snipe-it/
composer update --no-plugins --no-scripts
composer install --no-dev --prefer-source --no-plugins --no-scripts
php artisan migrate --seed
php artisan key:generate
```

16. Klik link berikut untuk [Install Nginx Ubuntu](#)

17. Backup file config default nginx.

```
cd /etc/nginx/conf.d/
mv default.conf default.conf.backup
```

18. Create Folder Log dan Edit Konfigurasi Nginx untuk SnipeIT :

```
mkdir -p /var/log/nginx/snipeit/
nano /etc/nginx/conf.d/snipeit.conf
```

19. Konfigurasi Nginx SnipeIT :

```
server {
    listen 80;
    server_name assets.ilusidigital.com;
```

```

root /var/www/snipe-it/public;
index index.php;

access_log /var/log/nginx/snipeit/snipeit_access.log;
error_log /var/log/nginx/snipeit/snipeit_error.log warn;

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

location ~ \.php$ {
    include fastcgi_params;
    fastcgi_pass unix:/run/php/php8.4-fpm.sock;
    fastcgi_index index.php;
    fastcgi_split_path_info ^(.+\.(php|php5|php7|php8|php8.1|php8.2|php8.3|php8.4))(/.+)?$;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    fastcgi_param PATH_INFO $fastcgi_path_info;
    fastcgi_read_timeout 300;
    fastcgi_connect_timeout 300;
    fastcgi_send_timeout 300;
}

location ~ /\.ht {
    deny all;
}
}

```

20. Ubah default user.

```
nano /etc/nginx/nginx.conf
```

21. Edit pool config PHP-FPM (biasanya di /etc/php/8.4/fpm/pool.d/www.conf):

```

listen = /run/php/php8.4-fpm.sock
listen.owner = nginx
listen.group = nginx
listen.mode = 0660

```

22. Restart Service Nginx dan PHP-FPM

```

systemctl restart php8.4-fpm
systemctl restart nginx

```

23. Verifikasi Socket

```
ls -l /run/php/php8.4-fpm.sock
```

24. Hasil dari verifikasi socket.

```
srw-rw---- 1 nginx nginx 0 Sep 22 13:05 /run/php/php8.4-fpm.sock
```

25. Create User Admin pada SnipeIT

```
cd /var/www/snipe-it/  
php artisan snipeit:create-admin --first_name="Admin" --last_name="Ilusi Digital" --  
email=ilusi.digtal2022@gmail.com --username=ilusidigital --password="P@ssw0rd!"
```

26. Snipe-IT sudah bisa digunakan.



Please Login

 Username

 Password

Remember Me

Login

[I forgot my password](#)

27. Selesai