

# Tutorial Instalasi SLiMS 9 Bulian di Ubuntu

Persiapan Awal

Update repository sistem

```
project@hanif:~$ sudo apt update
[sudo] password for project:
Hit:1 http://id.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

Install Apache, MariaDB, PHP, dan modul pendukung

```
project@hanif:~$ sudo apt install apache2 mariadb-server php libapache2-mod-php php-mysql php-gd php-xml php-mbstring php-curl unzip -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils galera-4 libapache2-mod-php8.3 libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 libcgi-fast-perl
  libcgi-pm-perl libclone-perl libconfig-inifiles-perl libdbd-mysql-perl libdbi-perl libencode-locale-perl libfcgi-bin libfcgi-perl libfcgi0t64 libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblua5.4-0 liblwp-mediatypes-perl libmariadb3 libmysqlclient21
  libsnappy1v5 libtimedate-perl liburi-perl liburing2 mariadb-client mariadb-client-core mariadb-common mariadb-plugin-provider-bzip2 mariadb-plugin-provider-lz4
  mariadb-plugin-provider-lzma mariadb-plugin-provider-lzo mariadb-plugin-provider-snappy mariadb-server-core mysql-common php-common php8.3 php8.3-cli php8.3-common
  php8.3-curl php8.3-gd php8.3-mbstring php8.3-opcache php8.3-openssl php8.3-readline php8.3-xml pv socat ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser php-pear libnldb-perl libnet-daemon-perl libsql-statement-perl libdata-dump-perl
  libipc-sharedcache-perl libio-compress-brotli-perl libbusiness-isbn-perl libregexp-ipv6-perl libwww-perl mailx mariadb-test doc-base zip
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils galera-4 libapache2-mod-php libapache2-mod-php8.3 libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  libcgi-fast-perl libcgi-pm-perl libclone-perl libconfig-inifiles-perl libdbd-mysql-perl libdbi-perl libencode-locale-perl libfcgi-bin libfcgi-perl libfcgi0t64
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblua5.4-0 liblwp-mediatypes-perl libmariadb3
  libmysqlclient21 libsnappy1v5 libtimedate-perl liburi-perl liburing2 mariadb-client mariadb-client-core mariadb-common mariadb-plugin-provider-bzip2
  mariadb-plugin-provider-lz4 mariadb-plugin-provider-lzma mariadb-plugin-provider-lzo mariadb-plugin-provider-snappy mariadb-server mariadb-server-core mysql-common
  php php-common php-curl php-gd php-mbstring php-mysql php-xml php8.3 php8.3-cli php8.3-common php8.3-curl php8.3-gd php8.3-mbstring php8.3-mysql php8.3-opcache
  php8.3-readline php8.3-xml pv socat ssl-cert
0 upgraded, 67 newly installed, 0 to remove and 129 not upgraded.
Need to get 27.7 MB of archives.
After this operation, 234 MB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu noble-updates/main amd64 libapr1t64 amd64 1.7.2-3.1ubuntu0.1 [108 kB]
0% [1 libapr1t64 64.1 kB/108 kB 60%]
```

Setup Database untuk SLiMS

Masuk ke MariaDB

Buat database dan user SLiMS

```
project@hanif:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.11-MariaDB-0ubuntu0.24.04.2 Ubuntu 24.04

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)]> CREATE DATABASE slims;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> CREATE USER 'slimsuser'@'localhost' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.100 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON slims.* TO 'slimsuser'@'localhost';
Query OK, 0 rows affected (0.055 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.000 sec)
```

```

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| slims |
| sys |
+-----+
5 rows in set (0.000 sec)

MariaDB [(none)]> 

```

## Download & Ekstrak SLiMS

### Download SLiMS 9 Bulian

```

project@hanif:/var/www/html$ sudo wget https://github.com/slins/slins9_bulian/archive/refs/heads/master.zip
--2025-04-17 06:31:01-- https://github.com/slins/slins9_bulian/archive/refs/heads/master.zip
Resolving github.com (github.com)... 20.205.243.166
Connecting to github.com (github.com)|20.205.243.166|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/slins/slins9_bulian/zip/refs/heads/master [following]
--2025-04-17 06:31:04-- https://codeload.github.com/slins/slins9_bulian/zip/refs/heads/master
Resolving codeload.github.com (codeload.github.com)... 20.205.243.165
Connecting to codeload.github.com (codeload.github.com)|20.205.243.165|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/zip]
Saving to: 'master.zip'

master.zip
[
] 49.98M 1.00MB/s in 51s

2025-04-17 06:31:56 (998 KB/s) - 'master.zip' saved [52410807]

```

### Ekstrak file ZIP

berfungsi untuk **mengekstrak (membuka)** file ZIP bernama `master.zip` yang biasanya berisi source code SLiMS yang baru kamu download dari GitHub.

```

project@hanif:/var/www/html$ sudo unzip master.zip
Archive: master.zip
ce0afea598cf9a81974b3ea5d150534337b7b695
  creating: slims9_bulian-master/
  creating: slims9_bulian-master/.github/
  creating: slims9_bulian-master/.github/ISSUE_TEMPLATE/
  inflating: slims9_bulian-master/.github/ISSUE_TEMPLATE/bug_report.md
  inflating: slims9_bulian-master/.github/ISSUE_TEMPLATE/feature_request.md
  inflating: slims9_bulian-master/.gitignore
  inflating: slims9_bulian-master/.htaccess
  inflating: slims9_bulian-master/LICENSE
  inflating: slims9_bulian-master/README.md
  creating: slims9_bulian-master/admin/
  inflating: slims9_bulian-master/admin/AJAX_check_id.php
  inflating: slims9_bulian-master/admin/AJAX_lookup_handler.php
  inflating: slims9_bulian-master/admin/AJAX_vocabulary_control.php
  creating: slims9_bulian-master/admin/admin_template/
  creating: slims9_bulian-master/admin/admin_template/akasia-dz/
  creating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/
  creating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/css/
  inflating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/css/animate.css
  inflating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/css/animate.min.css
  inflating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/css/bootstrap-theme.css
  inflating: slims9_bulian-master/admin/admin_template/akasia-dz/assets/css/bootstrap-theme.css.map

```

## Ganti nama folder hasil ekstrak dan Atur Izin Akses Folder

**mengganti nama folder** dari slims9\_bulian-master ke slims, Supaya SLiMS bisa diakses di browser, bisa menyimpan konfigurasi database, dan bisa upload file, maka kita perlu **atur kepemilikan dan hak aksesnya dulu**.

```
project@hanif:/var/www/html$ sudo mv slims9_bulian-master slims
project@hanif:/var/www/html$ cd slims/
project@hanif:/var/www/html/slims$ sudo chown -R www-data:www-data .
project@hanif:/var/www/html/slims$ sudo chmod -R 755 .
project@hanif:/var/www/html/slims$ sudo chmod -R 777 files config
project@hanif:/var/www/html/slims$
```

## Konfigurasi Virtual Host

```
project@hanif:/var/www/html/slims$ sudo vim /etc/apache2/sites-available/slims.conf
project@hanif:/var/www/html/slims$ cat /etc/apache2/sites-available/slims.conf
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html/slims
    ServerName slims.local

    <Directory /var/www/html/slims>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/slims_error.log
    CustomLog ${APACHE_LOG_DIR}/slims_access.log combined
</VirtualHost>
```

Buat file konfigurasi virtual host SLiMS

Aktifkan Konfigurasi Apache

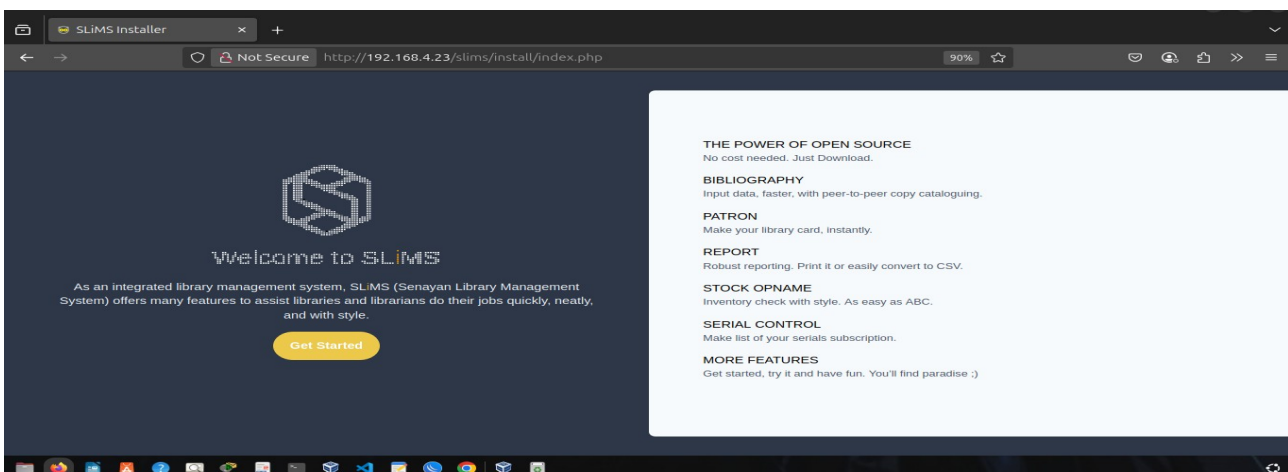
-Aktifkan virtual host SLiMS

-Aktifkan modul

-Restart Apache

```
project@hanif:/var/www/html/slims$ sudo a2ensite slims
Enabling site slims.
To activate the new configuration, you need to run:
    systemctl reload apache2
project@hanif:/var/www/html/slims$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2
project@hanif:/var/www/html/slims$ sudo systemctl restart apache2
```

tampilan slims di browser setelah penginstalan



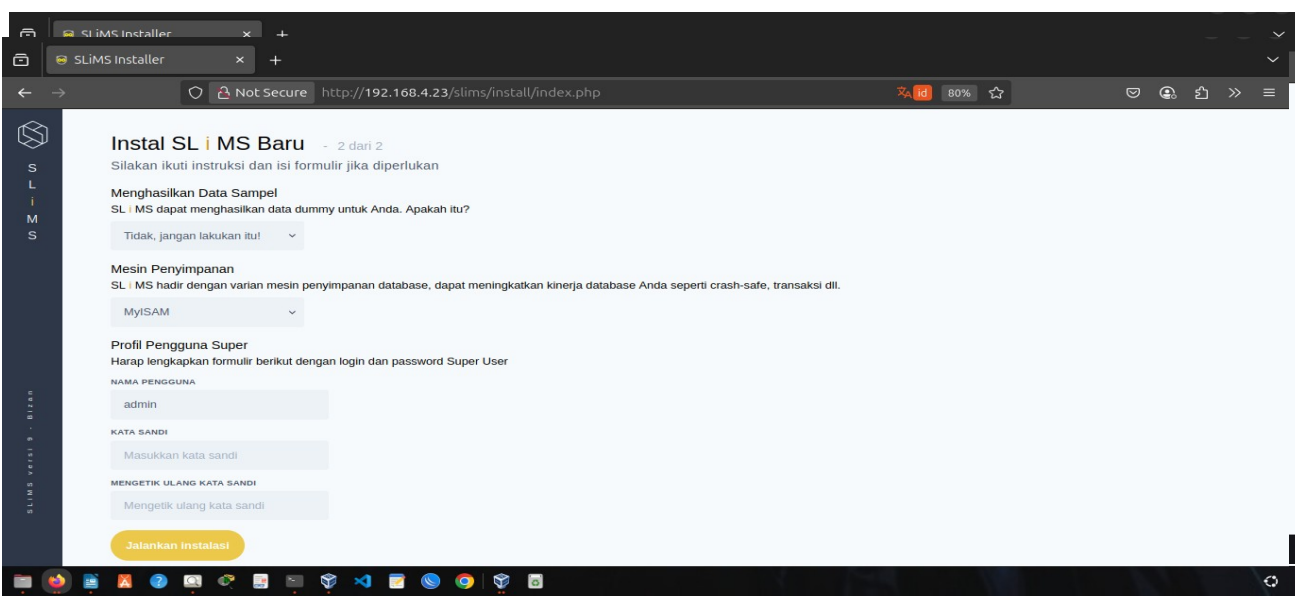
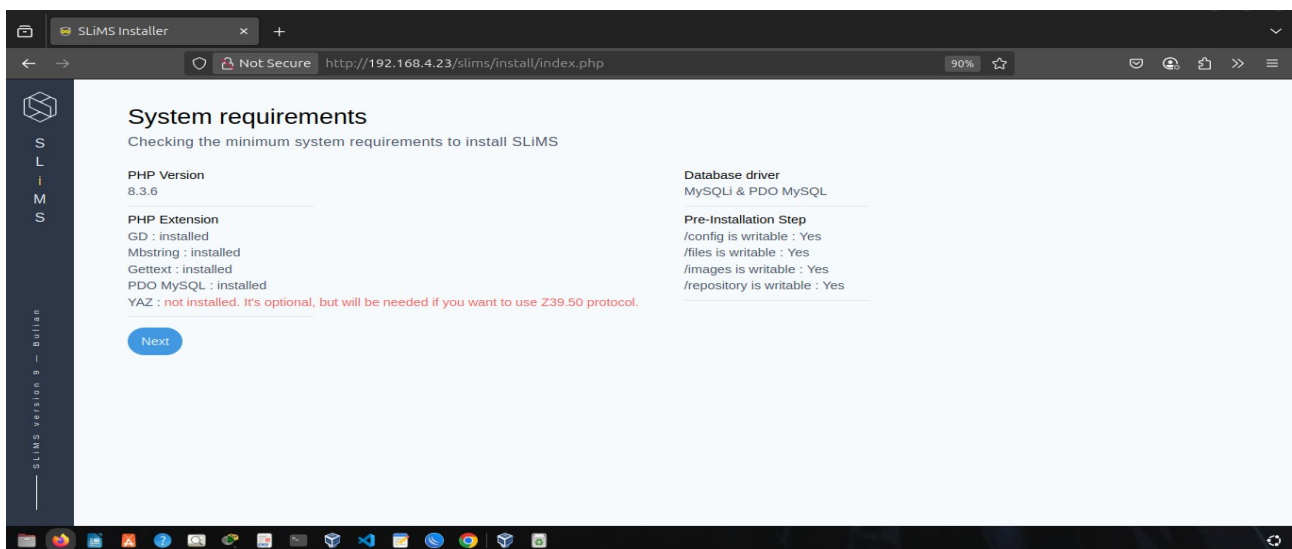
## Langkah Selanjutnya: Instalasi menggunakan SLiMS instaler

Apabila Anda melakukan klik pada tombol "*Install SLiMS*", Anda akan dibawa pada langkah pertama (dari dua) dari proses instalasi

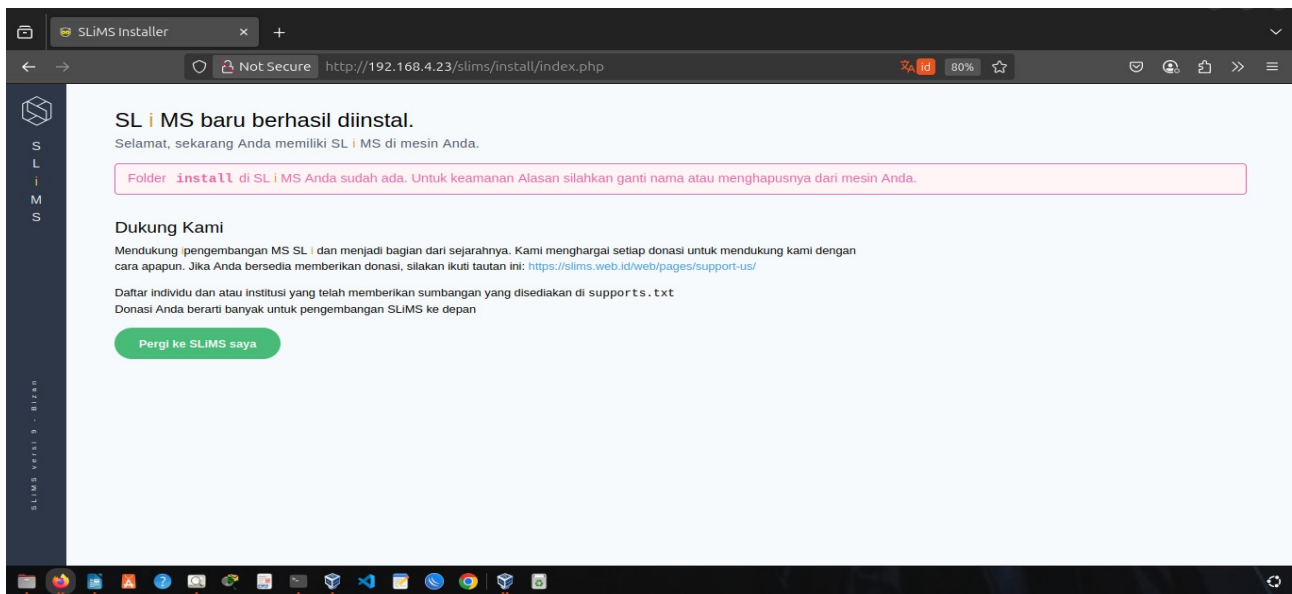
1. **Database Host:** secara baku, isian pada ruas ini tidak perlu diubah. Seperti keterangan yang dicantumkan di samping ruas.
2. **Database Name:** Masukkan nama pangkalan data yang telah dibuat, yang akan digunakan oleh SLiMS.
3. **Database Username:** Merupakan akun yang digunakan untuk mengakses pangkalan data. Secara baku pemasangan, akun yang disediakan oleh MySQL/MariaDB adalah **root**. Status akun **root** merupakan akun tertinggi yang memiliki akses dan hak penuh ke semua pangkalan data. Hati-hati dalam menggunakan akun **root** ini.

### Saran:

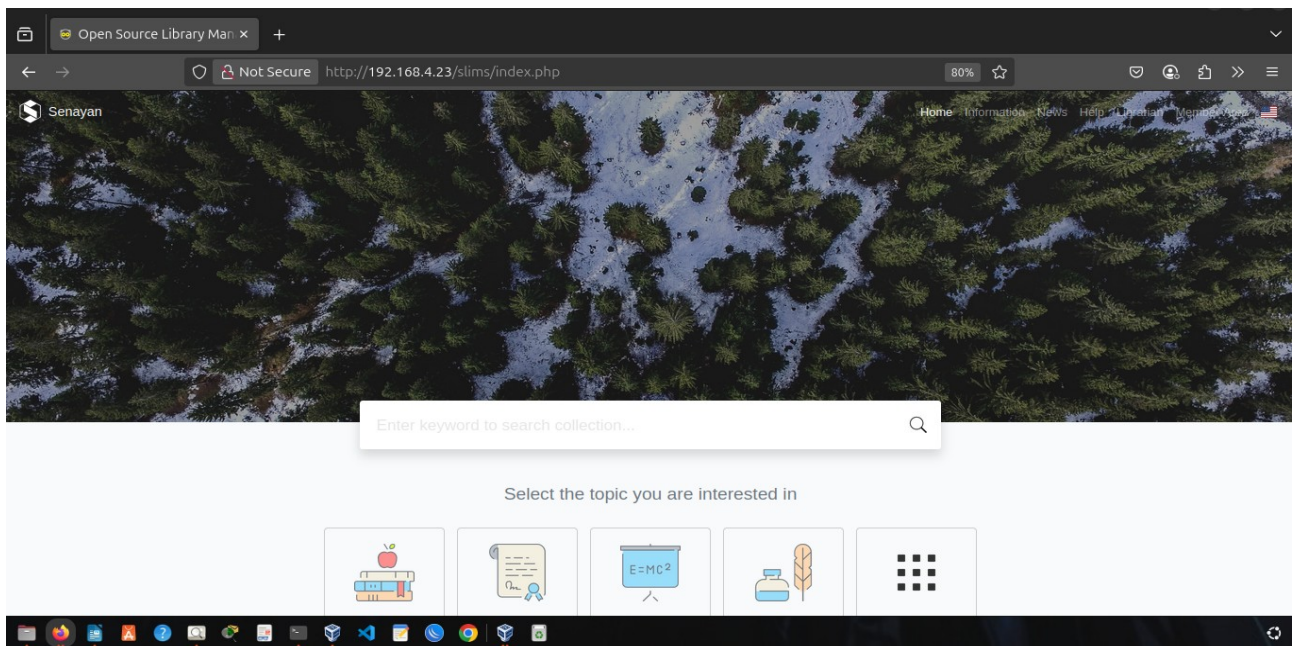
- Dalam mesin produksi, buat akun terpisah untuk setiap pangkalan data yang dibuat, alih-alih hanya menggunakan akun **root**, yang diberikan hak atau akses hanya ke pangkalan data tertentu. Hal ini dilakukan untuk keamanan.
4. **Database Password:** Masukkan kata sandi akun yang digunakan untuk akun yang digunakan pada ruas **Database Username**.







## Tampilan awal slims



## login untuk admin

The screenshot shows a web browser window with the address bar displaying "http://192.168.4.23/slims/index.php?p=member". The page has a header with the "Senayan" logo and navigation links: "Home", "Information", "News", "Help", "Librarian", and "Member Area". A search bar is positioned below the header with the placeholder text "Enter keyword to search collection...". The main content area is titled "Library Member Login" and includes a message: "Please insert your member ID and password given by library system administrator. If you are library's member and don't have a password yet, please contact library staff." Below this message are two input fields: "Member ID" with the placeholder "Enter member ID" and "Password" with the placeholder "Enter password". A blue "Login" button is located at the bottom of the form.

## tampilan awal dashboard admin

The screenshot displays the "Library Administration" dashboard. The top navigation bar includes links: "Home", "Bibliography", "Circulation", "Membership", "Master File", "Stock Take", "System", "Reporting", "Serial Control", and "Logout". The left sidebar contains a user profile for "Admin Librarian" and a "SHORTCUT" section with links to "Change User Profiles", "Shortcut Setting", and "Theme". The main content area features a yellow warning message: "Installer folder is still exist inside your server. Please remove it or rename to another name for security reason. You are logged in as Super User. With great power comes great responsibility." Below the warning are four summary cards: "Total of Collections" (15), "Total of Items" (10), "Lent" (0), and "Available" (10). The dashboard also includes sections for "Latest Transactions" and "Summary".