comment-installer-suitecrm-sur-debian-12

SuiteCRM is free and open-source CRM (Customer Relationship Management) software written in PHP. It helps you organize and manage your business's marketing, sales, and customer service departments. SuiteCRM is suitable for almost every industry, such as manufacturing, public sectors, technology, finance, education, etc.

In this guide, we'll walk you step-by-step through the installation of SuiteCRM on the Debian 12 server. You will install and run SuiteCRM with the LAMP Stack (Apache2, MariaDB, and PHP) on your Debian machine. You will also secure SuiteCRM with SSL/TLS certificates from Letsencrypt.

Prerequistes

sudo

The following requirements are necessary to continue with this guide:

- A Debian 12 Server.
 - A non-root user with administrator privileges.
 - A domain name pointed to a server IP address.

Installing Dependencies

SuiteCRM is a CRM software written in PHP with MySQL/MariaDB as the database. In this guide, you will be running SuiteCRM with the LAMP Stack (Apache2, MariaDB, and PHP), and now you will install LAMP Stack packages with additional PHP extensions.

First, update your Debian package index via the apt update command below.

r	root@debian12:~#
	root@debian12:~# sudo apt update
0	Set:1 http://security.debian.org/debian-security bookworm-security InRelease [48.0 kB]
9	Get:2 http://httpredir.debian.org/debian bookworm InRelease [151 kB]
0	Get:3 http://security.debian.org/debian-security bookworm-security/non-free-firmware Sources [784 B]
0	Get:4 http://security.debian.org/debian-security bookworm-security/main Sources [47.5 kB]
0	Get:5 http://security.debian.org/debian_security_bookworm-security/main_amd64_Packages [63.2 kB]
0	Get:6 http://security.debian.org/debian-security bookworm-security/main Translation-en [37.8 kB]
0	Set:7 http://security.debian.org/debian-security bookworm-security/non-free-firmware amd64 Packages [680 B]
	Get:8 http://security.debian.org/debian-security bookworm-security/non-free-firmware Translation-en [464 B] 📃
6	Set:9 http://httpredir.debian.org/debian bookworm-updates InRelease [52.1 kB]
6	Set:10 http://httpredir.debian.org/debian_bookworm/main_Sources_[9,640_kB]
	Satil http://http:adir.debian.org/debian.bookworm/non-free-firmware Sources [6:156 B]

Now install LAMP Stack (Apache2, MariaDB, and PHP) packages with some PHP extensions using the following command.

sudo apt install apache2 mariadb	server php php-cli php-mysal	php-bcmath php-xml php-zig	o p <mark>hp-curl php</mark> -mbstrin	a php-ad php-tidv php-
intl php cli php encoche php coo	n hn iman nhn Idan unzin	here a sum er bere en e bere ee		, , , , , , , , , , , , , , , , , , ,
The php-cer php-opeache php-soap	prip-imap prip-tuap unzip			

Type y to proceed with the installation.

rooto		
roote	debtan12*	
root@	debian12:-# sudo apt install apache2 mariadb-server php php-cli php-mysql php-bcmath php-xml php-zip php-curl	php-mbstring php-gd
php-	tidy php-intl php-cli php-opcache php-soap php-imap php-ldap	
Readi		
Build	ling dependency tree Done	
Readi	ing state information Done	
Note,	selecting 'php8.2-opcache' instead of 'php-opcache'	
The f	ollowing additional packages will be installed:	
apa	iche2-bin apache2-data apache2-utils fontconfig-config fonts-dejavu-core galera-4 gawk libabsl20220623 libaom3	
lib	apache2-mod-php8.2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libavif15 libc-client2007e lib	icgi-fast-perl
lib	cgi-pm-perl libclone-perl libconfig-inifiles-perl libdav1d6 libdaxctl1 libdbd-mariadb-perl libdbi-perl libde26	5-0 libdeflate0
lib	encode-locale-perl libfcgi-bin libfcgi-perl libfcgi0ldbl libfontconfig1 libgav1-1 libgd3 libheif1 libhtml-pars	er-perl
lib	html-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl libjbig0 libjpeg	62-turbo liblerc4

Next, run the following systemctl command to verify the apache2 service. This will ensure that the apache2 service is enabled and running.

sudo systemctl is-enabled apache2 sudo systemctl status apache2

The output **enabled** confirms that apache2 is enabled, and the output **active (running)** confirms that apache2 is running.



Similar to the apache2 service output, you should see the mariadb service is enabled and running.



Lastly, verify the PHP version and some enabled extensions by executing the following command.

php -v php -m

The following output shows you that PHP **8.2** is installed with some enabled modules such as *curl, exif, fileinfo,* and *gd*.



Configuring MariaDB Server

After installing dependencies, you will secure your MariaDB server installation and create a new database and user that will be used for SuiteCRM.

Execute the mariadb-secure-installation command below to secure your MariaDB server.

sudo mariadb-secure-installation

During the process, input Y to confirm the configuration or n for No and deny the changes.

- Switch to unix_socket authentication?. Input n and press ENTER. The default MariaDB root user is already
- protected. optionally, you can also enable it by typing y for yes.
- Change the root password?. Input y to confirm and set up your new MariaDB root password.
- Remove anonymous user?. Input y to confirm.
- Disallow root login remotely? Input y to confirm. Only local connection will be allowed if you are using the MariaDB root user.
- Remove test database and access to it?. Input y to confirm and remove the default database 'test'.
- Lastly, input y again to reload all tables privileges on your MariaDB server and apply new changes.

Now that MariaDB is secured, you will create a new database and user for SuiteCRM.

Log in to the MariaDB server via the mariadb client command below. Input your MariaDB root password when prompted.

sudo mariadb -u root -p

Next, run the following queries to create a new database **suitecrmdb** and the user **suitecrm** with password **password**. Be sure to change the password with your own password.



Now run the following query to verify the user suitecrm.

SHOW GRANTS FOR 'suitecrm'@'localhost';

In the following output, you should see the user suitecrm has access to the database suitecrmdb

MariaDB [(none)]> SHOW GRANTS FOR 'suitecrm'@'localhost';	
Grants for suitecrm@localhost	
GRANT USAGE ON *.* TO `suitecrm`@`localhost` IDENTIFIED BY PASSWORD '*2 GRANT ALL PRIVILEGES ON `suitecrmdb`.* TO `suitecrm`@`localhost`	470C0C06DEE42FD1618BB996
2 rows in set (0.000 sec)	
MariaDB [(none)]> quit	
Вуе	
root@debian12:~#	

Type quit to exit from the MariaDB server.

Configuring PHP

Now that the MariaDB server is configured, the next step is to configure your PHP installation. The SuiteCRM required some changes on PHP configurations, such as custom error_reporting, enabling the OPCache module, and also custom upload_max_filesize and post_max_size.

Open the default PHP configuration /*etc/php/8.2/apache2/php.ini* and /*etc/php/8.2/cli/php.ini* using the following nano editor command.



Lastly, execute the binary file /var/www/suitecrm/bin/console to install SuiteCRM via the command line. Be sure to change the details of the database name, user, host, target domain name, admin user, and password that will be used for your SuiteCRM installation.

sudo -u www-data ./bin/console suitecrm:app:install -u "alice" -p "password" -U "suitecrm" -P "password" -H "127.0.0.1" -N "<mark>suit</mark>ecrmdb" -S "http://suitecrm.hwdomain.io/"

Once the installation is finished, the following output will be shown to your terminal:



Configuring Apache2 Virtual Host for Suite

In the following step, you will create a new Apache2 virtual host configuration that will be used to run SuiteCRM. Before proceeding, ensure that you have a domain name pointed to your server IP address.

Run the a2enmod command below to enable Apache2 modules that are required by SuiteCRM.

sudo a2enmod rewrite ssl header

Then, create a new Apache2 virtual host configuration /*etc/apache2/sites-available/suitecrm.conf* using the following nano editor command.



Insert the following configuration and be sure to change the **ServerName** option with your domain name.

<virtualhost *:80=""></virtualhost>	
DocumentRoot /var/www/suitecrm/public ServerName suitecrm.hwdomain.io	
<pre><directory public="" suitecrm="" var="" www=""> Options FollowSymLinks AllowOverride All </directory></pre>	
ErrorLog /var/log/apache2/suitecrm-err or.log CustomLog /var/log/apache2/suitecrm- access .log common	
Save and close the file when you're done.	
Now run the following command to activate the virtual host file <i>suitecrm.conf</i> and verify	⁷ your Apache2 configurations.
sudo a2ensite suitecrm.conf sudo apachectl configtest	

If you've proper syntax, you should get the output Syntax OK.



Next, run the systemctl command below to restart the apache2 service and apply the changes.

sudo systemctl restart apache2

Lastly, open your web browser and visit the domain name of your SuiteCRM installation, such as <u>http://suitecrm.hwdomain.io/. If everything goes well</u>, you should see the login page of SuiteCRM.

Securing SuiteCRM with SSL/TLS from Letsencrypt

With everything configured, you will now secure SuiteCRM with SSL/TLS certificates from Letsencrypt.

Install Certbot and Certbot Apache plugin using the following apt install command. Type y to proceed with the installation.

sudo apt install certbot python3-certbot-apache

Now execute the certbot command below to generate SSL/TLS certificates. Be sure to change the domain name and email address within the following command.

sudo certbot --apache --agree-tos --no-eff-email --redirect --hsts --staple-ocsp --email admin@hwdomain.io -d suitecrm.hwdomain.io

Once the process is finished, your SSL certificates will be generated at */etc/letsencrypt/live/suitecrm.hwdomain.io* directory. Also, the SuiteCRM virtual host file suitecrm.conf will automatically configured with HTTPS.

Back to your web browser and visit your SuiteCRM domain name, you should be redirected to the SuiteCRM login page for secure HTTPS connections. Input your admin user and password, then click Login.



If everything goes well, you should see the SuiteCRM administration dashboard like the following:



Conclusion

To wrap up, you have now successfully installed SuiteCRM on Debian 12 server with LAMP Stack (Apache2, MariaDB, and PHP). You've also secured the SuiteCRM with SSL/TLS Letsencrypt, which is generated via Certbot. Now you can use SuiteCRM as the main CRM (Customer Relationship Management) application for your business, and you can start by adding the SMTP server to your SuiteCRM installation.

