Comment installer Prestashop sur Debian-12

Prestashop is a free open-source e-commerce solution written in PHP. It allows you to host and create online shops yourself and grow your online business. Prestashop is a fully customisable and feature-rich e-commerce solution that allows you to create comprehensive e-commerce websites. Prestashop is now used by more than 250,000 online shops around the world and is available in 65 languages.

In this tutorial, I will guide you step by step through the installation of PrestaShop on a Debian 12 server. You install PrestaShop with the LAMP stack (Apache2, MariaDB and PHP) and then secure your PrestaShop installation with SL/TLS certificates via Letsencrypt.

Prerequisites

Before you start, please have the following ready:

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

Installing Dependencies

PrestaShop is an open-source platform for creating an online store written in PHP with MariaDB/MySQL as the database. In the following step, you will install dependencies for PrestaShop, which includes LAMP Stack (Apache2, MariaDB, and PHP) packages with some additional PHP extensions. You will install specifically PHP 8.1 via a third-party repository because the current PrestaShop still does not yet support PHP 8.2.

First, run the following command to add a third-party PHP repository and GPG key to your Debian system.

sudo curl - sSLo /usr/share/keyrings/de b.sury.or <mark>g-php.gpg https</mark> ://packages.sury.org/php/apt.gpg sudo sh -c 'echo "deb [signed-by=/usr/share/keyrings/deb.sury.org-php.gpg] https://packages.sury.org/php/ \$(lsb_release -sc) main" > /etc/apt/sources.list.d/php.list'
Update and refresh your Debian package index by executing the following apt command.
sudo apt update
<pre>root@debian12:-# root@debian12:-# root@debian12:-# root@debian12:-# sed sh -c 'echo "deb [signed-by=/usr/share/keyrings/deb.sury.org-php.gog] https://packages.sury.org/php/ \$(lsb_relea se -sc) main" > /etc/apt/sources.list.d/php.list' root@debian12:-# root@debian12:-# root@debian12:-# root@debian12:-# sudo apt update Get:1 http://security.debian.org/debian-security bookworm-security InRelease [48.0 kB] Get:2 https://packages.sury.org/php bookworm InRelease [7,539 B] Get:3 http://httpredir.debian.org/debian bookworm.mRelease [151 kB] Get:3 http://packages.sury.org/php bookworm.matelease [151 kB] Get:5 http://security.debian.org/debian.security bookworm-security/main Sources [47.2 kB]</pre>
Once the repository is updated, install dependencies for PrestaShop using the following command. This will install

Once the repository is updated, install dependencies for PrestaShop using the following command. This will install *LAMP Stack* (Apache2, MariaDB, PHP 8.1) packages, *Certbot*, *Certbot Apache plugin*, and *additional PHP extensions* that are required by PrestaShop.

sudo apt install apache2 mariadb-server certbot python3-certbot-apache php8.1 php8.1-curl php8.1-xmlrp<mark>c php8.1-soap</mark> php8.1-intl php8.1-zip php8.1-cli php8.1-mysql php8.1-common php8.1-opcache php8.1-memcached php8.1-bcmath php8.1-gd php8.1-mbstring php8.1-xml php8.1-gmp php8.1-imagick unzip

Type y to proceed with the installation.

root@debian12:-# root@debian12:-# sudo apt install apache2 mariadb-server certbot python3-certbot-apache php8.1	php8.1-curl php8.1-xmlrpc php8.1-soap p
hp8.1-intl php8.1-zip php8.1-cli php8.1-mysql php8.1-common php8.1-opcache php8.1-memcached php	p8.1-bcmath php8.1-gd php8.1-mbstring ph
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 augeas-lenses fontconfig-config fonts-dejavu-core fon	
fonts-urw-base35 galera-4 gawk ghostscript gsfonts imagemagick-6-common libabsl20220623 liba	
libaprutill libaprutill-dbd-sqlite3 libaprutill-ldap libaugeas0 libavahi-client3 libavahi-com	mon data libavahi common3 libavif15
libcgi-fast-perl libcgi-pm-perl libclone-perl libconfig-inifiles-perl libcups2 libdav1d6 libc	daxctll libdbd-mariadb-perl
libdbi-perl libde265-0 libdeflate0 libencode-locale-perl libfcgi-bin libfcgi-perl libfcgi0ld	bl libfftw3-double3 libfontconfig1
libfontenc1 libgav1-1 libgd3 libglib2.0-0 libglib2.0-data libgomp1 libgs-common libgs10 libgs	s10-common libhashkit2 libheif1
libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-mess:	age-perl libice6 libidn12 libijs-0.35
libio_html_part libibig@ libibig2dac@ libipag62_turbs liblemc2_2 liblarc4 liblar_1_0 lib!td];	7 liblust 2-0 liblum-modisturger-parl

After dependencies are installed, verify each dependency using the following command.

Verify the **apache2** service to ensure that the service is running by executing the systemctl command below.

The following result will be shown, which confirms that apache2 service is running and enabled.



Now verify the **mariadb** service using the following command.



The displayed output below confirms that the mariadb service is running and enabled.



Lastly, run the following command to verify your PHP version and list enabled extensions.

php -v php -m

You should see that **PHP 8.1** is installed on your Debian machine with the list extensions enabled.



Configuring MariaDB Server

Now that you've installed dependencies for PrestaShop, the next step is to secure your MariaDB Server installation via the *mariadb-secure-installation* utility. Then, you will need to create a new database and user for PrestaShop.

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

sudo mariadb-secure-installation

Input **Y** to confirm and apply the new configuration, or **n** for No, and reject it. Below of MariaDB Server configurations that you will be asked for:

- 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.

Next, run the *mariadb* client command below to log in to the MariaDB Server. Input your MariaDB root password when prompted.

sudo mariadb -u root -p

Once logged in, execute the following queries to create a new database **prestashopdb**, a user **prestashop**, with the password is **password**. The new MariaDB database and user here will be the user for PrestaShop installation.

CREATE DATABASE prestashopdb; GRANT ALL PRIVILEGES ON prestashopdb.* TO 'prestashop'@'localhost' IDENTIFIED BY 'password'; FLUSH PRIVILEGES;

> MariaDB [(none)]> CREATE DATABASE prestashopdb; Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON prestashopdb.* TO 'prestashop'@'localhost' IDENTIFIED BY 'password'; Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> FLUSH PRIVILEGES; Query OK, 0 rows affected (0.001 sec) Next, run the following query to verify the MariaDB user **prestashop**.

SHOW GRANTS FOR 'prestashop'@'localhost';

The displayed output below reveals that the MariaDB user **prestashop** is allowed to access the database **prestashopdb**.



Lastly, type quit to exit from the MariaDB Server.

Configuring PHP

After configuring MariaDB Server, you will configure your PHP installation by modifying the php.ini file. Then, you will also verify your environment to ensure that everything related to PHP configuration is met with PrestaShop requirements.

Open the default PHP configuration /etc/php/8.1/apache2/php.ini using the following nano editor command.

sudo nano /etc/php/8.1/apache2/php.ini

Change the configuration below and be sure to adjust the *date.timezone* and *memory_limit* parameters with your server environment.

date.timezone = Europe/Amsterdam
max_execution_time = 130
memory_limit = 256M
allow_url_fopen = On
allow_url_include = Off
post_max_size = 128M
upload_max_filesize = 128M
max input vars = 5000

Save the file and exit the editor when you're done.

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

sudo systemctl restart apache2

Now that you've configured PHP, you will verify that your server environment is ready for PrestaShop installation. This can be done by using the environment checker provided by PrestaShop.

Move to the */var/www/html* directory and download the environment check script via the wget command below. You will see the file **v1.1.tar.gz** on your current working directory.

cd /var/www/html wget https://github.com/PrestaShop/php-ps-inf**o/ar**chive/refs/tags**/v1.1**.tar.**g**z

Extract the file v1.1.tar.gz and rename the extracted directory to check-ps.

```
tar -xf vl.1.tar.gz
mv php-ps-info-1.1 check-<mark>ps</mark>
```

Lastly, open your web browser and visit the server IP address followed by the path check-ps to access the PrestaShop environment checker script, such as <u>http://192.168.10.15/check-ps/phppsinfo.php</u>.

Input the default username prestashop and password prestashop, then click Sign in.

s site is asking you	i to sign in.		
ername			
restashop			
ssword			
•••••			
•••••			

Ensure that your dependencies, PHP configurations, and PHP extensions are met with the PrestaShop requirements. If not, you can adjust your settings based on the recommendation on the page.

PHP PrestaShop Info					
	General information 8	k PHP/MySQ	L Version		
		Required	Recommended	Current	
	Web server		Apache		
	PHP Type	Aj	pache Module (low perfe	ormance)	
	PHP Version	5.6	7.1	8.1.23	
	MySQLi Extension	5.5	5.6	mysqlnd 8.1.23	
	Internet connectivity (Prestashop)	No	Yes	Yes	
	PHP Configuration				
	4	Required	Recommended	Current	
	allow_url_fopen	Yes	Yes	Yes	
	expose_php	No	No	No	
	file_uploads	Yes	Yes	Yes	
	register_argc_argv	No	No	No	
	short_open_tag	No	No	No	
	max_input_vars	1000	5000	5000	
	memory_limit	64M	256M	256M	
	post_max_size	16M	128M	128M	
	upload_max_filesize	4M	128M	128M	
	set_time_limit	Yes	Yes	Yes	
	PHP Extensions				
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Downloading Prestashop

Now that the MariaDB Server and PHP are configured, the next step is to download the PrestaShop source code and configure the installation directory with proper permission and ownership.

Move your working directory to */var/www/* and download the PrestaShop source code via the wget command below. Be sure to check the PrestaShop release page to get the latest version of PrestaShop.

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

wget https://github.com/PrestaShop/PrestaShop/releases/download/8.1.2/prestashop_8.1.2.zip

Now extract the PrestaShop source code via the unzip command below. You should see the PrestaShop source within the zip file prestashop.zip.

unzip prestashop_8.1.2.zip

Extract the file **prestashop.zip** using the unzip command below to the target directory */var/www/prestashop*. The PrestaShop source code will be extracted to the **prestashop** directory, so your Prestashop installation directory should be **/var/www/prestashop**.

unzip prestashop.zip -d /var/www/prestashop

Lastly, run the following command to set up the proper ownership and permission for the PrestaShop installation directory */var/www/prestashop*. The ownership should use **www-data** with the permission **u+rw**, which means the owner can read and write to the target directory.

Configuring Apache2 Virtual Host

In the following step, you will create a new Apache2 virtual host configuration that will be used to run prestaShop. So before that, ensure that you've your domain name pointed to a server IP address.

To start, run the following command to enable the **rewrite** module for Apache.



ErrorLog /var/log/apache2/prestashop.error.log
CustomLog /var/log/apache2/prestashop.access.log combined
</VirtualHost>

Save and close the file when you're done.

Next, run the following command to activate the virtual host file *prestashop.conf* and verify your Apache configuration.

sudo a2ensite prestashop.conf sudo apachectl configtest

If you've proper Apache configuration, the output Syntax OK will be displayed.



Now run the systemctl command below to restart the *apache2* service and apply the changes.

sudo systemctl restart apache2

Lastly, generate the SSL/TLS certificates for your PrestaShop domain name by executing the following certbot command. Be sure to change the email address and the domain name with your information.

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

Once the process is finished, your virtual host file **prestashop.conf** will automatically configured with HTTPS and your SSL/TLS certificates will be available at /*etc/letsencrypt/live/hwdomain.io* directory.

Installing PrestaShop via Command Line

At this point, you can now finish up your PrestaShop installation via web UI or command line. In this example, you'll finish your PrestaShop installation via the command line.

Go to the PrestaShop installation directory /var/www/prestashop/install.

cd /var/www/pres<mark>tashop</mark>/install

Run the **index_cli.php** script like the following to start PrestaShop installation via the command line. Be sure to change the details of a domain name, MariaDB database host, name, username, and password. Also, be sure to change the email address and password that will be used as admin for PrestaShop.

sudo -u www-data php index_cli.php --domain=hwdomain.io --db_server=127.0.0.1 --db_name=prestashopdb --db_user=prestashop -db_password=password --prefix=myps_ --email=alice@hwdomain.io --password=Passw0rd

Once the installation is finished, the output "Installation successful" will be shown like the following.



Next, run the following command to set up proper permission for some PrestaShop directories. This will allow the **www-data** as the owner to read and write to those target directories.



Now run the command below to remove the */var/www/prestashop/install* directory and secure your PrestaShop installation.

sudo rm -rf /var/www/prestashop/install

Then, open your web browser and visit your PrestaShop domain name, such as <u>http://hwdomain.io/</u>. Once the installation is successful, you should be redirected to a secure HTTPS connection, and you should see the default homepage of your PrestaShop installation.



Next, visit the PrestaShop domain name followed by the admin path, such as <u>https://hwdomain.io/admin/</u>. If everything goes well, you should be redirected to the PrestaShop login page. Also, you can see the default URL path for PrestaShop has changed to **admin051rgjztgtkvgcie6dp**.

Input your admin user and password, then click Login.



If you have a proper admin user and password, you should be presented with the PrestaShop administration dashboard.

Dashboard D/GSTIL	oard						CD Demo m	ode Help
Orders Day	Month Year Day-	1 Month-	1 Year-1					
Catalog								
O Activ	ity overview	00	III Products and Sal	es				0.0
Stars Onlin in the las	e Visitors	1		T BEST SELLERS	MOST VIEWED	Q TOP SEARCHES		
Nodules In the last	Shopping Carts	5	Last 10 orders					
Design	ently Pending		Customer Name	Products	Total Tax excl.	Date	Status	
Shipping Orders		0			666.80		Canceled	Q
Payment Recurr	Æxchanges	0	John DOE	2	€109.90		Awaiting check payment	Q
International Aband		0		-	€19.90		Payment error	Q
Cut of	Stock Products	0			€19,90		Awating check payment	a
Shop Parameters O Noti	fications				625.90		Awaiting bank wire payment	Q
and the second se		1011N					reserve serve a population	

Another conside<mark>ration, you can run th</mark>e following command to check the PrestaShop login admin.

ls /var/www/prestashop

The output below shows that the PrestaShop admin page is available at **admin051rgjztgtkvgcie6dp**.

<pre>root@debian12:/var/www/ root@debian12:/var/www/ root@debian12:/var/www/ root@debian12:/var/www/</pre>	prestashop# prestashop# sudo prestashop# prestashop# ls /v	rm -rf /var/www ar/www/prestash	/prestashop/in			
admin051rgjztgtkvgcie6d	p classes	download	INSTALL.txt	Makefile	robots.txt	translations
app autoload.php	composer.lock	img	JS LICENSES	override	templates	var
	controllers	index.php	localization	pdf	themes	vendor
cache		init.php	mails	phpstan.neon.dist	tools	webservice
root@debian12:/var/www/	prestashop# _					
root@debian12:/var/www/	prestashop#					

Conclusion

To conclude, you've now successfully installed PrestaShop on Debian 12 step-by-step. You've installed PrestaShop 8 with LAMP Stack (Apache2, MariaDB, and PHP) and secured PrestaShop installation with SSL/TLS certificates. Furthermore, you've also learned how to start PrestaShop installation via the command line. Now you can add new themes and additional extensions to extend your PrestaShop installation.