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Let's Encrypt SSL on Ubuntu 20.04 Patricia Armesto 1 year ago · Updated

How to Deploy Laravel 8 with Apache and

model-view-controller architectural pattern and it's used for the faster development of web

command-line interface that helps to perform several operations for your applications. In this guide, we'll explain how to install Laravel 8 with Apache and Let's Encrypt SSL on Ubuntu 20.04. Requirements

applications. It's highly scalable and has built-in support for distributed cache systems. It comes with a

 An Ubuntu 20.04 server installed in your system. A valid domain name pointed to your server IP.

• A root password or a user with sudo privileges.

apt-get install apache2 -y

ubuntu

Install Apache Web Server

This will install the Apache web server package and start the Apache web service automatically.

To **install the Apache web server**, run the following command:

To test the Apache web server, open your web browser and access the URL http://your-server-ip. You

Configuration Overview Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server. The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows: /etc/apache2/ apache2.conf `-- ports.conf mods-enabled |-- *.load -- *.conf conf-enabled `-- *.conf sites-enabled `-- *.conf apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server. ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime **Install PHP** Laravel is a PHP-based application so you'll need to install PHP and other required extensions to your

cgi.fix_pathinfo=0 Save and close the file, then restart the Apache service to apply the changes.

Install Composer Composer is a dependency manager for PHP used for managing dependencies and libraries required for

To **install Composer**, run the following command:

All settings correct for using Composer Downloading... Composer (version 2.1.6) successfully installed to: /root/composer.phar

Next, verify the Composer version using the following command: # composer --version

You should see the following output:

cd /var/www/html

mv composer.phar /usr/local/bin/composer

Composer version 2.1.6 2021-08-19 17:11:08

First, navigate to the Apache web root directory and **download Laravel** with the following command:

> @php artisan vendor:publish --tag=laravel-assets --ansi No publishable resources for tag [laravel-assets]. Publishing complete.

Next, change the permission and ownership of Laravel directory:

Configure Apache to Host Laravel 8

nano /etc/apache2/sites-available/laravel.conf

You can create it using the following command:

Options Indexes MultiViews

AllowOverride None

Require all granted

</Directory>

</VirtualHost>

your Laravel website:

(Y)es/(N)o: Y

Obtaining a **new** certificate

Enabled Apache rewrite module

Waiting for verification...

Cleaning up challenges

Performing the following challenges:

http-01 challenge for laravel.example.com

cancel): admin@example.com

@php artisan key:generate --ansi

Application key set successfully.

chown -R www-data:www-data /var/www/html/laravel

Next, you'll need to create an Apache virtual host configuration file to host a Laravel application.

Add the following lines: <VirtualHost *:80> ServerAdmin admin@example.com ServerName laravel.example.com

Save and close the file and then enable the Apache rewrite module and activate the Laravel virtual host with the following command: # a2enmod rewrite # a2ensite laravel.conf Finally, **reload the Apache service** to apply the changes: # systemctl restart apache2

Please read the Terms of Service at https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must

Saving debug log to /var/log/letsencrypt/letsencrypt.log

Plugins selected: Authenticator apache, Installer apache

Created an SSL vhost at /etc/apache2/sites-available/laravel-le-ssl.conf Deploying Certificate to VirtualHost /etc/apache2/sites-available/laravel-le-ssl.cor Enabling available site: /etc/apache2/sites-available/laravel-le-ssl Please choose whether or not to redirect HTTP traffic to HTTPS, removing HTTP access. 1: No redirect - Make no further changes to the webserver configuration. 2: Redirect - Make all requests redirect to secure HTTPS access. Choose this for new sites, or if you're confident your site works on HTTPS. You can undo this change by editing your web server's configuration. Select the appropriate number [1-2] then [enter] (press 'c' to cancel): 2 Type "2" and hit "Enter" to download and install a free SSL certificate for your domain. Once the installation has been completed successfully. You should get the following output: Enabled Apache rewrite module Redirecting vhost in /etc/apache2/sites-enabled/laravel.conf to ssl vhost in /etc/apache2/sites-enabled/laravel.conf laravel-le-ssl.conf Congratulations! You have successfully enabled https://laravel.example.com You should test your configuration at: https://www.ssllabs.com/ssltest/analyze.html?d=laravel.example.com At this point, your Laravel website is secured with Let's Encrypt SSL. You can now access it securely using the URL https://laravel.example.com.

With this tutorial, you've learned how to install Laravel 8 with Apache and secure it with Let's Encrypt SSL on Ubuntu 20.04.

Conclusion

Laravel

documentation from beginning to end.

including new package releases and tutorials.

Laravel has wonderful, thorough documentation covering every aspect of the framework. Whether you are new to the framework or have

Laravel News is a community driven portal and newsletter aggregating

all of the latest and most important news in the Laravel ecosystem,

previous experience with Laravel, we recommend reading all of the

Documentation

Laravel News

✓ Yes × No 7 out of 7 found this helpful

Was this article helpful?

You can now start developing a full stack PHP web application using the Laravel framework!

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Features

Advantages

Functionalities

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API

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Laravel is a free, and open-source PHP framework based on the Symfony framework. It follows the

First, you'll need to install the Web server package to host a Laravel application. You can use Nginx or Apache web server for Laravel.

should see the Apache test page in the following screen: **Apache2 Ubuntu Default Page**

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server. If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

server. You can install all of them using the following command: # apt-get install libapache2-mod-php php php-common php-xml php-gd php-opcache php-mb After installing all the packages, edit the php.ini file and enable cgi.fix_pathinfo: # nano /etc/php/7.4/apache2/php.ini Change the following line:

curl -sS https://getcomposer.org/installer | php You should get the following output:

systemctl restart apache2

PHP applications.

Use it: php composer.phar Next, move the downloaded binary to the system path:

Install Laravel 8 Using Composer

In this section, you'will install Laravel using Composer.

You should get the following output:

composer create-project --prefer-dist laravel/laravel laravel

chmod -R 775 /var/www/html/laravel

DocumentRoot /var/www/html/laravel/public <Directory /var/www/html/laravel>

ErrorLog \${APACHE_LOG_DIR}/error.log

Run the following command to install the Certbot client:

apt-get install python3-certbot-apache -y

certbot --apache -d laravel.example.com

CustomLog \${APACHE_LOG_DIR}/access.log combined

Install Let's Encrypt SSL on Laravel Site It's always recommended to secure your website with Let's Encrypt SSL. To do so, you'll need to install the Certbot client to your server.

After installing Certbot, run the following command to download and install the Let's Encrypt SSL on

Enter email address (used for urgent renewal and security notices) (Enter 'c' to

Would you be willing to share your email address with the Electronic Frontier

Foundation, a founding partner of the Let's Encrypt project and the non-profit

organization that develops Certbot? We'd like to send you email about our work

encrypting the web, EFF news, campaigns, and ways to support digital freedom.

You'll have to **provide a valid e-mail address and accept the term of service** as shown below:

agree in order to register with the ACME server at https://acme-v02.api.letsencrypt.org/directory (A)gree/(C)ancel: A

Access Laravel Website Now, open your website and type the URL https://laravel.example.com in your web browser. You'll be redirected to the Laravel 8 default page:

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Laravel's robust library of first-party tools and libraries, such as Forge.

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Laravel v8.60.0 (PHP v7.4.3)

JavaScript development. Check them out, see for yourself, and

massively level up your development skills in the process.

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How to Deploy a MERN (MongoDB, Express, React, and Node.js) Application on Ubuntu 20.04 LTS LAMP preinstalled image

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