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Laravel Forge: create and manage PHP 8 servers. Deploy your Laravel applications in seconds. Sign up now!

Meet Laravel

Laravel is a web application framework with expressive, elegant syntax. A web framework provides a structure and starting point for creating your application, allowing you to focus on creating something amazing while we sweat the details.

Laravel strives to provide an amazing developer experience while providing powerful features such as thorough dependency injection, an expressive database abstraction layer, queues and scheduled jobs, unit and integration testing, and more.

Whether you are new to PHP web frameworks or have years of experience, Laravel is a framework that can grow with you. We'll help you take your first steps as a web developer or give you a boost as you take your expertise to the next level. We can't wait to see what you build.

New to Laravel? Check out the [Laravel Bootcamp](#) for a hands-on tour of the framework while we walk you through building your first Laravel application.

Why Laravel?

There are a variety of tools and frameworks available to you when building a web application. However, we believe Laravel is the best choice for building modern, full-stack web applications.

A Progressive Framework

We like to call Laravel a "progressive" framework. By that, we mean that Laravel grows with you. If you're just taking your first steps into web development, Laravel's vast library of documentation, guides, and [video tutorials](#) will help you learn the ropes without becoming overwhelmed.

If you're a senior developer, Laravel gives you robust tools for [dependency injection](#), [unit testing](#), [queues](#), [real-time events](#), and more. Laravel is fine-tuned for building professional web applications and ready to handle enterprise work loads.

A Scalable Framework

Laravel is incredibly scalable. Thanks to the scaling-friendly nature of PHP and Laravel's built-in support for fast, distributed cache systems like Redis, horizontal scaling with Laravel is a breeze. In fact, Laravel applications have been easily scaled to handle hundreds of millions of requests per month.

Need extreme scaling? Platforms like [Laravel Vapor](#) allow you to run your Laravel application at nearly limitless scale on AWS's latest serverless technology.

A Community Framework

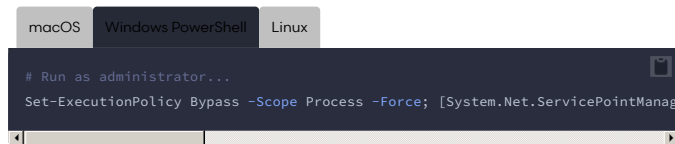
Laravel combines the best packages in the PHP ecosystem to offer the most robust and developer friendly framework available. In addition, thousands of talented developers from around the world have [contributed to the framework](#). Who knows, maybe you'll even become a Laravel contributor.

Creating a Laravel Application

Installing PHP and the Laravel Installer

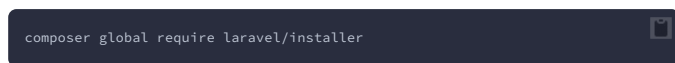
Before creating your first Laravel application, make sure that your local machine has [PHP](#), [Composer](#), and [the Laravel installer](#) installed. In addition, you should install either [Node and NPM](#) or [Bun](#) so that you can compile your application's frontend assets.

If you don't have PHP and Composer installed on your local machine, the following commands will install PHP, Composer, and the Laravel installer on macOS, Windows, or Linux:



After running one of the commands above, you should restart your terminal session. To update PHP, Composer, and the Laravel installer after installing them via [php.new](#), you can re-run the command in your terminal.

If you already have PHP and Composer installed, you may install the Laravel installer via Composer:



For a fully-featured, graphical PHP installation and management experience, check out [Laravel Herd](#).

Creating an Application

After you have installed PHP, Composer, and the Laravel installer, you're ready to create a new Laravel application. The Laravel installer will prompt you to select your preferred testing framework, database, and starter kit:



Once the application has been created, you can start Laravel's local development server, queue worker, and Vite development server using the [dev](#) Composer script:



Once you have started the development server, your application will be accessible in your web browser at <http://localhost:8000>. Next, you're ready to [start taking your next steps into the Laravel ecosystem](#). Of course, you may also want to [configure a database](#).

If you would like a head start when developing your Laravel application, consider using one of our [starter kits](#). Laravel's starter kits provide backend and frontend authentication scaffolding for your new Laravel application.

Initial Configuration

All of the configuration files for the Laravel framework are stored in the [config](#) directory. Each option is documented, so feel free to look through the files and get familiar with the options available to you.

Laravel needs almost no additional configuration out of the box. You are free to get started developing! However, you may wish to review the `config/app.php` file and its documentation. It contains several options such as `timezone` and `locale` that you may wish to change according to your application.

Environment Based Configuration

Since many of Laravel's configuration option values may vary depending on whether your application is running on your local machine or on a production web server, many important configuration values are defined using the `.env` file that exists at the root of your application.

Your `.env` file should not be committed to your application's source control, since each developer / server using your application could require a different environment configuration. Furthermore, this would be a security risk in the event an intruder gains access to your source control repository, since any sensitive credentials would be exposed.

For more information about the `.env` file and environment based configuration, check out the full [configuration documentation](#).

Databases and Migrations

Now that you have created your Laravel application, you probably want to store some data in a database. By default, your application's `.env` configuration file specifies that Laravel will be interacting with an SQLite database.

During the creation of the application, Laravel created a `database/database.sqlite` file for you, and ran the necessary migrations to create the application's database tables.

If you prefer to use another database driver such as MySQL or PostgreSQL, you can update your `.env` configuration file to use the appropriate database. For example, if you wish to use MySQL, update your `.env` configuration file's `DB_*` variables like so:

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=laravel
DB_USERNAME=root
DB_PASSWORD=
```

If you choose to use a database other than SQLite, you will need to create the database and run your application's [database migrations](#):

```
php artisan migrate
```

If you are developing on macOS or Windows and need to install MySQL, PostgreSQL, or Redis locally, consider using [Herd Pro](#).

Directory Configuration

Laravel should always be served out of the root of the "web directory" configured for your web server. You should not attempt to serve a Laravel application out of a subdirectory of the "web directory". Attempting to do so could expose sensitive files present within your application.

Local Installation Using Herd

[Laravel Herd](#) is a blazing fast, native Laravel and PHP development environment for macOS and Windows. Herd includes everything you need to get started with Laravel development, including PHP and Nginx.

Once you install Herd, you're ready to start developing with Laravel. Herd includes command line tools for `php`, `composer`, `laravel`, `expose`, `node`, `npm`, and `nvm`.

[Herd Pro](#) augments Herd with additional powerful features, such as the ability to create and manage local MySQL, Postgres, and

Herd on macOS

If you develop on macOS, you can download the Herd installer from the [Herd website](#). The installer automatically downloads the latest version of PHP and configures your Mac to always run [Nginx](#) in the background.

Herd for macOS uses [dnsmasq](#) to support "parked" directories. Any Laravel application in a parked directory will automatically be served by Herd. By default, Herd creates a parked directory at `~/Herd` and you can access any Laravel application in this directory on the `.test` domain using its directory name.

After installing Herd, the fastest way to create a new Laravel application is using the Laravel CLI, which is bundled with Herd:

```
cd ~/Herd
laravel new my-app
cd my-app
herd open
```

Of course, you can always manage your parked directories and other PHP settings via Herd's UI, which can be opened from the Herd menu in your system tray.

You can learn more about Herd by checking out the [Herd documentation](#).

Herd on Windows

You can download the Windows installer for Herd on the [Herd website](#). After the installation finishes, you can start Herd to complete the onboarding process and access the Herd UI for the first time.

The Herd UI is accessible by left-clicking on Herd's system tray icon. A right-click opens the quick menu with access to all tools that you need on a daily basis.

During installation, Herd creates a "parked" directory in your home directory at `%USERPROFILE%\Herd`. Any Laravel application in a parked directory will automatically be served by Herd, and you can access any Laravel application in this directory on the `.test` domain using its directory name.

After installing Herd, the fastest way to create a new Laravel application is using the Laravel CLI, which is bundled with Herd. To get started, open Powershell and run the following commands:

```
cd ~\Herd
laravel new my-app
cd my-app
herd open
```

You can learn more about Herd by checking out the [Herd documentation for Windows](#).

Docker Installation Using Sail

We want it to be as easy as possible to get started with Laravel regardless of your preferred operating system. So, there are a variety of options for developing and running a Laravel application on your local machine. While you may wish to explore these options at a later time, Laravel provides [Sail](#), a built-in solution for running your Laravel application using [Docker](#).

Docker is a tool for running applications and services in small, light-weight "containers" which do not interfere with your local machine's installed software or configuration. This means you don't have to worry about configuring or setting up complicated development tools such as web servers and databases on your local machine. To get started, you only need to install [Docker Desktop](#).

Laravel Sail is a light-weight command-line interface for interacting with Laravel's default Docker configuration. Sail provides a great starting point for building a Laravel application using PHP, MySQL, and Redis without requiring prior Docker experience.

Already a Docker expert? Don't worry! Everything about Sail can be customized using the `docker-compose.yml` file included with Laravel.

Sail on macOS

If you're developing on a Mac and [Docker Desktop](#) is already installed, you can use a simple terminal command to create a new Laravel application. For example, to create a new Laravel application in a directory named "example-app", you may run the following command in your terminal:

```
curl -s "https://laravel.build/example-app" | bash
```

Of course, you can change "example-app" in this URL to anything you like - just make sure the application name only contains alpha-numeric characters, dashes, and underscores. The Laravel application's directory will be created within the directory you execute the command from.

Sail installation may take several minutes while Sail's application containers are built on your local machine.

After the application has been created, you can navigate to the application directory and start Laravel Sail. Laravel Sail provides a simple command-line interface for interacting with Laravel's default Docker configuration:

```
cd example-app  
  
./vendor/bin/sail up
```

Once the application's Docker containers have started, you should run your application's [database migrations](#):

```
./vendor/bin/sail artisan migrate
```

Finally, you can access the application in your web browser at: <http://localhost>.

To continue learning more about Laravel Sail, review its [complete documentation](#).

Sail on Windows

Before we create a new Laravel application on your Windows machine, make sure to install [Docker Desktop](#). Next, you should ensure that Windows Subsystem for Linux 2 (WSL2) is installed and enabled. WSL allows you to run Linux binary executables natively on Windows 10. Information on how to install and enable WSL2 can be found within Microsoft's [developer environment documentation](#).

After installing and enabling WSL2, you should ensure that Docker Desktop is [configured to use the WSL2 backend](#).

Next, you are ready to create your first Laravel application. Launch [Windows Terminal](#) and begin a new terminal session for your WSL2 Linux operating system. Next, you can use a simple terminal command to create a new Laravel application. For example, to create a new Laravel application in a directory named "example-app", you may run the following command in your terminal:

```
curl -s https://laravel.build/example-app | bash
```

Of course, you can change "example-app" in this URL to anything you like - just make sure the application name only contains alpha-numeric characters, dashes, and underscores. The Laravel application's directory will be created within the directory you execute the command from.

Sail installation may take several minutes while Sail's application containers are built on your local machine.

After the application has been created, you can navigate to the application directory and start Laravel Sail. Laravel Sail provides a simple command-line interface for interacting with Laravel's default Docker configuration:

```
cd example-app
```

```
./vendor/bin/sail up
```

Once the application's Docker containers have started, you should run your application's [database migrations](#):

```
./vendor/bin/sail artisan migrate
```

Finally, you can access the application in your web browser at: <http://localhost>.

To continue learning more about Laravel Sail, review its [complete documentation](#).

Developing Within WSL2

Of course, you will need to be able to modify the Laravel application files that were created within your WSL2 installation. To accomplish this, we recommend using Microsoft's [Visual Studio Code](#) editor and their first-party extension for [Remote Development](#).

Once these tools are installed, you may open any Laravel application by executing the `code .` command from your application's root directory using Windows Terminal.

Sail on Linux

If you're developing on Linux and [Docker Compose](#) is already installed, you can use a simple terminal command to create a new Laravel application.

First, if you are using Docker Desktop for Linux, you should execute the following command. If you are not using Docker Desktop for Linux, you may skip this step:

```
docker context use default
```

Then, to create a new Laravel application in a directory named "example-app", you may run the following command in your terminal:

```
curl -s https://laravel.build/example-app | bash
```

Of course, you can change "example-app" in this URL to anything you like - just make sure the application name only contains alpha-numeric characters, dashes, and underscores. The Laravel application's directory will be created within the directory you execute the command from.

Sail installation may take several minutes while Sail's application containers are built on your local machine.

After the application has been created, you can navigate to the application directory and start Laravel Sail. Laravel Sail provides a simple command-line interface for interacting with Laravel's default Docker configuration:

```
cd example-app  
  
./vendor/bin/sail up
```

Once the application's Docker containers have started, you should run your application's [database migrations](#):

```
./vendor/bin/sail artisan migrate
```

Finally, you can access the application in your web browser at: <http://localhost>.

To continue learning more about Laravel Sail, review its [complete documentation](#).

Choosing Your Sail Services

When creating a new Laravel application via Sail, you may use the `with` query string variable to choose which services should be configured in your new

application's `docker-compose.yml` file. Available services include `mysql`, `pgsql`, `mariadb`, `redis`, `valkey`, `memcached`, `meilisearch`, `typesense`, `minio`, `selenium`, and `mailpit`:

```
curl -s "https://laravel.build/example-app?with=mysql,redis" | bash
```

If you do not specify which services you would like configured, a default stack of `mysql`, `redis`, `meilisearch`, `mailpit`, and `selenium` will be configured.

You may instruct Sail to install a default [Devcontainer](#) by adding the `devcontainer` parameter to the URL:

```
curl -s "https://laravel.build/example-app?with=mysql,redis&devcontainer" | bash
```

IDE Support

You are free to use any code editor you wish when developing Laravel applications; however, [PhpStorm](#) offers extensive support for Laravel and its ecosystem, including [Laravel Pint](#).

In addition, the community maintained [Laravel Idea](#) PhpStorm plugin offers a variety of helpful IDE augmentations, including code generation, Eloquent syntax completion, validation rule completion, and more.

Next Steps

Now that you have created your Laravel application, you may be wondering what to learn next. First, we strongly recommend becoming familiar with how Laravel works by reading the following documentation:

- [Request Lifecycle](#)
- [Configuration](#)
- [Directory Structure](#)
- [Frontend](#)
- [Service Container](#)
- [Facades](#)

How you want to use Laravel will also dictate the next steps on your journey. There are a variety of ways to use Laravel, and we'll explore two primary use cases for the framework below.

New to Laravel? Check out the [Laravel Bootcamp](#) for a hands-on tour of the framework while we walk you through building your first Laravel application.

Laravel the Full Stack Framework

Laravel may serve as a full stack framework. By "full stack" framework we mean that you are going to use Laravel to route requests to your application and render your frontend via [Blade templates](#) or a single-page application hybrid technology like [Inertia](#). This is the most common way to use the Laravel framework, and, in our opinion, the most productive way to use Laravel.

If this is how you plan to use Laravel, you may want to check out our documentation on [frontend development](#), [routing](#), [views](#), or the [Eloquent ORM](#). In addition, you might be interested in learning about community packages like [Livewire](#) and [Inertia](#). These packages allow you to use Laravel as a full-stack framework while enjoying many of the UI benefits provided by single-page JavaScript applications.

If you are using Laravel as a full stack framework, we also strongly encourage you to learn how to compile your application's CSS and JavaScript using [Vite](#).

If you want to get a head start building your application, check out one of our official [application starter kits](#).

Laravel the API Backend

Laravel may also serve as an API backend to a JavaScript single-page application or mobile application. For example, you might use Laravel as an API backend for your [Next.js](#) application. In this context, you may use Laravel to provide [authentication](#) and data storage / retrieval for your application, while also taking advantage of Laravel's powerful services such as queues, emails, notifications, and more.

If this is how you plan to use Laravel, you may want to check out our documentation on [routing](#), [Laravel Sanctum](#), and the [Eloquent ORM](#).

Need a head start scaffolding your Laravel backend and Next.js frontend? Laravel Breeze offers an [API stack](#) as well as a [Next.js frontend implementation](#) so you can get started in minutes.



Laravel is a web application framework with expressive, elegant syntax. We believe development must be an enjoyable and creative experience to be truly fulfilling. Laravel attempts to take the pain out of development by easing common tasks used in most web projects.



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