

# Enlightn: Boost your Laravel App's Performance & Security

January 25th, 2021

[Enlightn](#) is an amazing tool that helps you boost your Laravel application's performance and security. It has 120 automated checks that scan your application code, hit your routes, and check your server configurations to provide recommendations on improving performance, security, and code reliability.

## Using Enlightn

Enlightn has two versions: open source (with 60 checks) and a Pro version (with 120 checks).

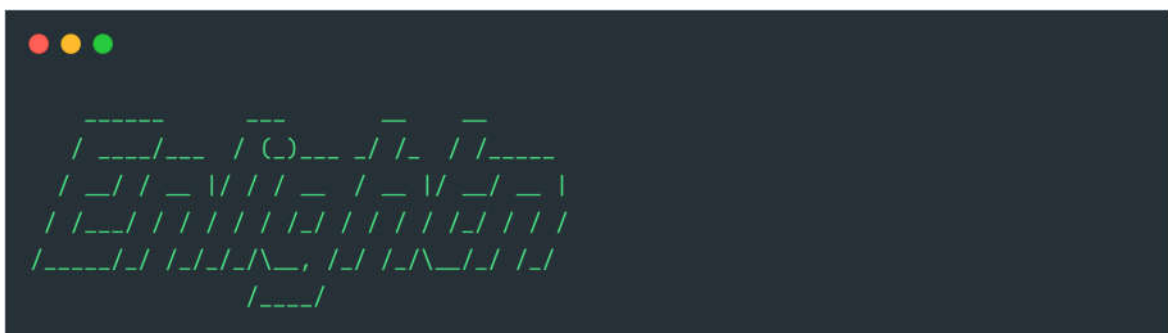
You can install the open source version through Composer. To install the Pro version, you can checkout the [Enlightn documentation](#).

```
1 composer require enlightn/enlightn
```

After that, all you need to do is run the ``enlightn`` Artisan command:

```
1 php artisan enlightn
```

With this command, Enlightn, being the awesome consultant that it is, starts its analysis on your application.



**TIP:** To get the most out of Enlightn, we found it's best to run Enlightn on your production setup. Many of Enlightn's checks are environment-specific, so they may only be triggered when your app environment is in production.

## Features

With 120 automated checks, Enlightn covers almost every aspect of performance, security, and code reliability that you can think of!

## Performance Checks

Enlightn has 34 automated performance checks. Some of our favorite ones include:

- Route caching
- Detection of N+1, slow, and duplicate queries
- Checking for compression and cache headers
- Middleware bloat detection

## Security Checks

Enlightn has 41 automated reliability checks including:

- Dead route and dead code detection
- Detecting misconfigurations
- Bug detection
- Health checks

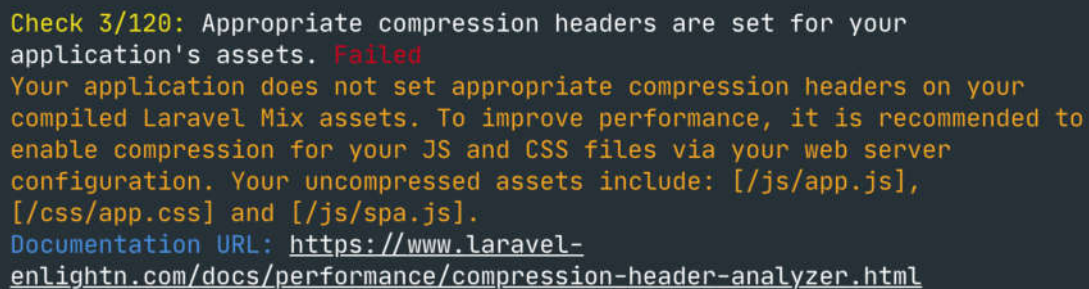
## Query Optimizations

Enlightn can scan your app's code and detect possible query optimizations. Consider the code below:

```
1 namespace App\Models;
2
3 use Illuminate\Database\Eloquent\Model;
4
5 class Client extends Model
6 {
```

Enlightn doesn't just scan your application code. It can also detect opportunities to tune server configurations.

Some of these opportunities can make a huge impact on performance. For instance, by setting the right compression headers on your web server, you can reduce your asset file size by 80%!



```
Check 3/120: Appropriate compression headers are set for your
application's assets. Failed
Your application does not set appropriate compression headers on your
compiled Laravel Mix assets. To improve performance, it is recommended to
enable compression for your JS and CSS files via your web server
configuration. Your uncompressed assets include: [/js/app.js],
[/css/app.css] and [/js/spa.js].
Documentation URL: https://www.laravel-
enlightn.com/docs/performance/compression-header-analyzer.html
```

For static analyzers, N+1 query detection is almost impossible, especially for a loosely typed language like PHP. But Enlightn combines dynamic analysis with static analysis to make this possible.













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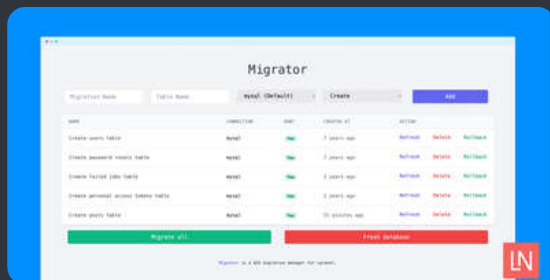
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