

API Token Authentication in Laravel 5.2 & 5.3

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I recently had the need to write a small url shortening application. I am aware that this problem has been solved quite a few times before, but what is being a developer if not reinventing the wheel just for the heck of it? Custom CMS anyone?

Knowing that this was going to be a tiny RESTful API and also knowing that Laravel 5.2 had [API rate limiting built in](#), I was eager to give it a try.

[Taylor Otwell](#) being Taylor Otwell shipped 5.2 with the rate limiting defaults set up out of the box and I had my application building out short url's in a matter of minutes.

The problem for me came when I wanted to start associating those short urls with a user.

Typically my applications have a UI and authentication is done through a simple login page. Obviously for a RESTful API, having a login page isn't ideal. Instead, my hope was to have users append an `api_token` to the end of their query string and use that to authenticate their request.

I was happy to find that 5.2 also ships with a `TokenGuard`([link](#)) class that allows you to do exactly that, but the documentation on getting it to work was a bit thin, so here you go.

Set up Token based Authentication

1. Add an `api_token`

The first thing you need to do is to add an `api_token` column to your `users` table. If you are just starting your application you can likely get away with modifying the user migration that ships with Laravel to include your new column.

```
// add this to your users_table migration
```

```
$table->string('api_token', 60)->unique();
```

Note: Be sure to generate and assign an `api_token` to new users. Something like `str_random(60)` should be sufficient.

2. Wrap your routes

Second, we need to make sure that any routes that will be using Token Authentication are being protected by the `auth:api` middleware. Use the following route group as an example of what your routes might look like.

```
Route::group(['prefix' => 'api/v1', 'middleware' =>
'auth:api'], function () {

    Route::post('/short', 'UrlMapperController@store');

});
```

Note: Typically when protecting routes from unauthenticated users, we use the `auth` middleware, but by appending `:api` to the end we are telling Laravel that we want to use the driver for the `api` guard which is set up in the `config/auth.php` and is defaulted to `token`.

At this point, any routes wrapped with your `auth:api` middleware are only accessible to those that visit the route with a valid `api_token` in their request.

3. Getting the User

To get the authenticated user for this API request, use the following snippet:

```
Auth::guard('api')->user();
```

Just like when we called the middleware, we have to let Laravel know that we want the api guard instead of the default web guard.

Extras

In the App\Http\Middleware\Authenticate middleware, you might want to change the following lines:

Update: This has been merged into 5.2. Check out the current Authenticate Middleware [here](#)

```
// Original

    if ($request->ajax()) {

        return response('Unauthorized.', 401);

    } else {

        return redirect()->guest('login');

    }

// Updated

    if ($request->ajax() || $request->wantsJson()) {

        return response('Unauthorized.', 401);

    } else {

        return redirect()->guest('login');

    }
```

This will return a 401 status code to unauthorized API requests instead of redirect it to a login page.

Lastly, if you are planning on primarily using the TokenGuard to authenticate requests, change the default guard in `config/auth.php` to be `api` instead of `web`. That should prevent you from having to tell Laravel to use the `api` version of the middleware or guard since Laravel will use by default what you have set in `config/auth.php`.

Wrapping Up

Well there you have it, authenticating users to your api using nothing more than an `api_token` in the request and an `api_token` column on your user table. Hopefully this will save you the time it took me digging through the TokenGuard and [Issues](#) to figure it out.

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