

If you have plan to use JWT for authenticating or authorizing your api clients, this article is for you.

This article might be out of date, you can find the latest version of package and its documentation here in Github.

## LaraJwt Package

LaraJwt is a Laravel package for generating JWT (JSON Web-based Token) from users and providing JWT **guard** for Laravel applications.

### Installation

Run the following command in your Laravel root directory:

composer require miladrahimi/larajwt:2.\*

Then run the following command to generate jwt.php (the package config) in your Laravel config directory:

php artisan vendor:publish --tag=larajwt-config

#### Notes on Installation

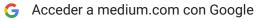
• The package service provider will be automatically discovered by Laravel package

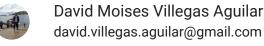
discovery.

• The JwtAuth alias for MiladRahimi\La registered.

# Configuration

To configure the package open <code>jwt.php f</code> consists of following items:





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- key: The secret key to sign the token, it uses your project key if you leave it empty.
- ttl: Time that token will be valid, token will be expired after this time (in seconds)
- issuer: Issuer claim
- audience : Audience claim
- model\_safe: Set it true if you have different authentication for different models with
   LaraJwt, it ensures that token belongs to related model defined in guard.

## **Generate JWT from Users**

Use the method below to generate JWT from users or any other authenticable entities (models):

```
$jwt = JwtAuth::generateToken($user);
```

For example you may generate JWT from users in the sign-in process like this:

```
$credential = [
    'email' => $request->input('email'),
    'password' => $request->input('password'),
];

if(Auth::guard('api')->attempt($credential)) {
    $user = Auth::guard('api')->user();

    $jwt = JwtAuth::generateToken($user);
```

#### **Guards**

Add as many as guard you need in your config/auth.php with jwt driver like this example:

\$jwt = JwtAuth::generateToken(\$user, \$customClaims);

```
'guards' => [
    'web' => [
        'driver' => 'session',
        'provider' => 'users',
],

'api' => [
        'driver' => 'jwt',
        'provider' => 'users',
],
],
```

### **Authenticated Routes**

After configuring guards in <code>config/auth.php</code> you can protect routes by the defined guards.

In our example we can protect route like this:

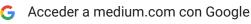
```
Route::group(['middleware' => 'auth:api'], function () {
    // Routes...
```

});

• Your clients must send header Author

### **Authenticated User**

To retrieve current user and his info in yo can do it this way:







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```
// To get current user
$user = Auth::guard('api')->user();
$user = Auth::quard('api')->getUser();
// To get current user id
$user = Auth::guard('api')->id();
// Is current user quest
$user = Auth::quard('api')->quest();
// To get current token
$jwt = Auth::quard('api')->getToken();
// To get current token claims
$claims = Auth::quard('api') -> getClaims();
// To get a sepcific claim from current token
$role = Auth::guard('api')->getClaim('role');
// Logout current user (JWT will be cached in blacklist and NOT valid
in next requests).
Auth::guard('api')->logout();
// Logout current user (but it will be VALID next reugests).
// It clears caches so user will be fetched and filters will be
executed again in next request.
Auth::quard('api')->logout(false);
```

Since LaraJwt caches user fetching it can authenticate users without touching database.

# **Retrieve User Manually**

You may need to retrieve user from generated JWTs manually, no worry! just do it this way:



## **Retrieve JWT Claims Manually**

You my even go further and need to retrieve JWT claims manually, it has considered too.

```
$claims = JwtAuth::retrieveClaims($jwt);
```

The mentioned method returns associative array of claims with following structure:

```
'sub' => '666',
'iss' => 'Your app name',
'aud' => 'Your app audience',
// ...
```

#### Cache

LaraJwt caches JWTs in default, so after first authentication it remembers token as long as ttl which is set in config.

If you need to clear cache for a specific user you can use following method:

```
JwtAuth::clearCache($user);
```

You can pass user model (Authenticable) or its id to the clearCache method.

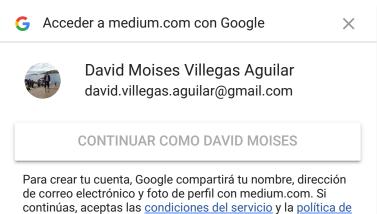
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#### **Filters**

Filters are runnable closures which will b model.

For example if you have considered book probably want to check its value after autifalse or change LaraJwt normal process t

You can register filters as many as you ne authentication.



AuthServiceProvider seems a good place to register filters.

The registerFilter takes a closure with one argument to get authenticated user and it should return the user if there is no problem, it can return null if you want make the authentication failed.

# **Logout and JWT Invalidation**

As mentioned with example above you can logout user with following method:

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

It takes one boolean parameter that is trues the token won't be valid in next request current user and clear cache.

You can also invalidate tokens with JwtAt



JwtAuth::invalidate(\$jti);

# **Exceptions**

```
Exception Class: LaraJwtConfiguringException Exception Message: LaraJwt config not found.
```

This exception would be thrown if you had not published the package config (mentioned in Installation section).

## **JWT vs Stored Tokens**

You may consider simple database-stored tokens as the alternative for JWT for authenticating, So we have provided some differences and comparison for you.

#### Cons

- More HTTP overhead, generated tokens are long.
- Force logout is more complex and tricky (LaraJwt handles it for you).

#### **Pros**

- No need to database column for storing generated tokens.
- No database touch if you only need user id.
- Less database touch if you cache user fetching (LaraJwt does it for you).

# More information and Updates

If you are interested to use this package if Github via this link:

https://github.com/miladrahimi/larajw

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