

Aiven for Laravel

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Laravel

The PHP Framework for Web Artisans

Aiven

Database-as-a-Service, on a cloud of your choice

Databases

- **MySQL** - Natural match for PHP
- **PostgreSQL** - MySQL's older brother
- **Redis** - Cache? Queue? You choose!
- **OpenSearch** - Open source search backend (fork of Elasticsearch)

Bonus content: Artisan helper for Aiven with Laravel

Eloquent ORM

Eloquent is Laravel's database package and ORM

It supports PostgreSQL and MySQL, used in most applications

MySQL and PostgreSQL

A relational database for every occasion



Configure Connection

MySQL connection:

```
DATABASE_URL=mysql://avnadmin:s3cr3t@host:port/defaultdb
```

(may need to disable `mysql.sql_require_primary_key`)

PostgreSQL connection:

```
DATABASE_URL=postgres://avnadmin:s3cr3t@host:port/defaultdb  
DB_CONNECTION=pgsql
```

Remove other `DB_*` fields to use connection strings

Quick Test: Breeze

Laravel Breeze is users-in-a-box for Laravel - with database backend.

- Set database config
- Run `php artisan migrate`
- Start your app `php artisan serve`
- Register at <https://localhost:8000/register>
- Check the database for users

Redis

In-memory data store



Redis Requirements

Redis has some dependencies, **either one of:**

- PHP extension `PhpRedis` from PECL
- The userland `redis/redis` package

Configure redis in `.env`:

```
REDIS_URL=rediss://default:s3cr3t@host:port
```

Redis in Action

Add a route to see Redis in action

```
use Illuminate\Support\Facades\Redis;

Route::get('/redis', function () {
    $count = Redis::get('count');
    if(!$count) {
        $count = 0;
    }
    Redis::incr('count');
    return "Current value of count: " . $count;
});
```

The key is `laravel_database_count`

Redis with Laravel

Simple data store, cache, or queue.

Cache: <https://laravel.com/docs/8.x/cache>

- Helper functions including tagging, expiry

Queues: <https://laravel.com/docs/8.x/queues>

- An object to represent a job and payload
- Performed asynchronously by worker apps

OpenSearch

Search all the things! (also Elasticsearch)



OpenSearch and Scout

- Laravel Scout supports search backends
 - <https://laravel.com/docs/8.x/scout>
- Plus the Elasticsearch/OpenSearch addition Explorer
 - <https://jeroen-g.github.io/Explorer/>

Great writeup: <https://laravel-news.com/explorer>

Aiven for Laravel

Add some Aiven magic to your Laravel project!

<https://github.com/aiven/aiven-laravel/>



Aiven for Laravel

Add some `artisan` commands for easy Aiven database connection and management.

```
composer require aiven/aiven-laravel
```

Set up the environment variables:

- `AIVEN_API_TOKEN`
- `AIVEN_DEFAULT_PROJECT`

Database Config

Your `artisan` command should now have new entries:

```
php artisan list
```

Get database lists and config:

```
php artisan aiven:list
```

```
php artisan aiven:getconfig --service my-database
```

Paste the config into your `.env` file

Avoid Cloud Bills

Leaving services running can add up!

Check if the database is running:

```
php artisan aiven:state --service my-database
```

Turn it on or off:

```
php artisan aiven:powerup --service my-database  
php artisan aiven:powerdown --service my-database
```

Aiven and Laravel

And a little sprinkle of helper magic



Resources

- <https://github.com/aiven/aiven-laravel>
- <https://aiven.io> (free trial)
- <https://laravel.com>
- <https://lornajane.net>