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Run Laravel on App Engine flexible environment

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Laravel

[Laravel](http://laravel.com) (<http://laravel.com>) is an open source web framework for PHP developers that encourages the use of the model-view-controller (MVC) pattern.

You can check out [PHP on Google Cloud Platform \(/php\)](/php) (GCP) to get an overview of PHP and learn ways to run PHP apps on GCP.

Prerequisites

1. Create a project in the [Google Cloud Platform Console](https://console.cloud.google.com/project) (<https://console.cloud.google.com/project>).
2. Enable billing for your project.
3. Install the [Google Cloud SDK](#) (/sdk).

Prepare

Follow the official documentation for [installing Laravel](https://laravel.com/docs/5.4/installation) (<https://laravel.com/docs/5.4/installation>) from laravel.com.

Run

1. Run the app with the following command:

```
php artisan serve
```

2. Visit <http://localhost:8000> (<http://localhost:8000>) to see the Laravel Welcome page.

Deploy

1. Create an `app.yaml` file with the following contents:

```
runtime: php
env: flex

runtime_config:
  document_root: public
```

```
# Ensure we skip ".env", which is only for local development
skip_files:
  - .env

env_variables:
  # Put production environment variables here.
  APP_LOG: errorlog
  APP_KEY: YOUR_APP_KEY
```

2. Replace `YOUR_APP_KEY` in `app.yaml` with an application key you generate with the following command:

```
php artisan key:generate --show
```

If you're on Linux or macOS, the following command will automatically update your `app.yaml`:

```
sed -i '' "s#YOUR_APP_KEY#$(php artisan key:generate --show --no-ansi
```

3. Add the following under `scripts` in `composer.json`:

```
"post-install-cmd": [
  "chmod -R 755 bootstrap\cache",
  "php artisan cache:clear"
]
```

In the context of Laravel's `composer.json` file, it will look like this:

```
{
  "name": "betterbrent\\blog",
  "license": "proprietary",
  "type": "project",
  "require": {
    "php": ">=7.0.0",
    "fideloper\\proxy": "~3.3",
    "laravel\\framework": "5.5.*",
    "laravel\\tinker": "~1.0"
  },
  "require-dev": {
    "filp\\whoops": "~2.0",
    "fzaninotto\\faker": "~1.4",
    "mockery\\mockery": "0.9.*",
    "phpunit\\phpunit": "~6.0"
  },
  "autoload": {
    "classmap": [
      "database\\seeds",
      "database\\factories"
    ],
    "psr-4": {
      "App\\": "app\\"
    }
  },
  "autoload-dev": {
    "psr-4": {
      "Tests\\": "tests\\"
    }
  },
  "extra": {
    "laravel": {
      "dont-discover": []
    }
  },
  "scripts": {
    "post-root-package-install": [
      "@php -r \"file_exists('.env') || copy('.env.example', '.env');\""
    ],
    "post-create-project-cmd": [
      "@php artisan key:generate"
    ],
    "post-autoload-dump": [
      "Illuminate\\Foundation\\ComposerScripts::postAutoloadDump",
      "@php artisan package:discover"
    ],
    "post-install-cmd": [
      "chmod -R 755 bootstrap\\\\"cache",
      "php artisan cache:clear"
    ]
  },
  "config": {
    "preferred-install": "dist",
    "sort-packages": true,
    "optimize-autoloader": true
  }
}
```

4. Run the following command to deploy your app:

```
gcloud app deploy
```

5. Visit http://YOUR_PROJECT_ID.appspot.com to see the Laravel welcome page. Replace `YOUR_PROJECT_ID` with the ID of your GCP project.

Laravel

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Set up Database Sessions

Note: This section only works with Laravel 5.4.16. To use earlier versions of Laravel, you need to manually add the `DB_SOCKET` value to `config/database.php` (see [#4178](#) (<https://github.com/laravel/laravel/pull/4179/files>))

1. [Enable the Cloud SQL API](#)
(<https://console.cloud.google.com/flows/enableapi?apiid=sqladmin>) in your project.
2. Follow the instructions to set up a [Google Cloud SQL Second Generation instance for MySQL](#) (</sql/docs/mysql/create-instance>).
3. Follow the instructions to [install the Cloud SQL proxy client on your local machine](#) (</sql/docs/mysql/connect-external-app#install>). The Cloud SQL proxy is used to connect to your Cloud SQL instance when running locally.
4. Use the [Cloud SDK](#) (`/sdk`) from the command line to run the following command. Copy the `connectionName` value for the next step. Replace `YOUR_INSTANCE_NAME` with the name of your instance:

```
gcloud sql instances describe YOUR_INSTANCE_NAME
```

5. Start the Cloud SQL proxy and replace `YOUR_INSTANCE_CONNECTION_NAME` with the connection name you retrieved in the previous step:

```
cloud_sql_proxy -instances=YOUR_INSTANCE_CONNECTION_NAME=tcp:3306
```

6. Use the MySQL client, or a similar program, to connect to your instance and create a database for the application. When prompted, use the root password you configured.

```
mysql -h 127.0.0.1 -u root -p -e "CREATE DATABASE laravel;"
```

7. Run the database migrations for Laravel. This can be done locally by setting your parameters in `.env` or by passing them in as environment variables. Be sure to replace `YOUR_DB_PASSWORD` below with the root password you configured:

```
# create a migration for the session table
php artisan session:table
DB_DATABASE=laravel DB_USERNAME=root DB_PASSWORD=YOUR_DB_PASSWORD php
```

8. Modify your `app.yaml` file with the following contents:

```
runtime: php
env: flex

runtime_config:
  document_root: public

# Ensure we skip ".env", which is only for local development
skip_files:
  - .env
```

```
env_variables:
  # Put production environment variables here.
  APP_LOG: errorlog
  APP_KEY: YOUR_APP_KEY
  CACHE_DRIVER: database
  SESSION_DRIVER: database
  ## Set these environment variables according to your CloudSQL confi
  DB_HOST: localhost
  DB_DATABASE: laravel
  DB_USERNAME: root
  DB_PASSWORD: YOUR_DB_PASSWORD
  DB_SOCKET: "/cloudsql/YOUR_CLOUDSQL_CONNECTION_NAME"

beta_settings:
  # for Cloud SQL, set this value to the Cloud SQL connection name,
  # e.g. "project:region:cloudsql-instance"
  cloud_sql_instances: "YOUR_CLOUDSQL_CONNECTION_NAME"
```

9. Replace each instance of `YOUR_DB_PASSWORD` and `YOUR_CLOUDSQL_CONNECTION_NAME` with the values you created for your Cloud SQL instance above.

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