

Setting Up Cron Jobs on Laravel Forge

In the Laravel world, we are able to set up recurring tasks/jobs in a more flexible way than using traditional cron jobs. This is because we are able to control the schedule in our code, and we only need to create a single cron job per project.

Creating a Task

There are multiple ways to do this. For the full details, refer to the Laravel documentation for [task scheduling](#). However, here's a quickstart:

First, [create a job](#) using the `artisan` command:

```
sail artisan make:job SendWeeklyEmail
```

Pro tip!

Add the following to your shell configuration file if you haven't yet: `alias sail='bash vendor/bin/sail'`

After the job is created, implement the desired functionality in the `handle()` function. Consult the official documentation for an explanation of the generated file.

Next, you'll want to open `app/Console/Kernel.php` and modify the task schedule. Something like this:

```
<?php

namespace App\Console;

use App\Jobs\SendWeeklyEmail;

class Kernel extends ConsoleKernel
{
    // ...
```

```
protected function schedule(Schedule $schedule)
{
    $schedule
        ->job(new SendWeeklyEmail())
        ->weekly()
        ->wednesdays()
        ->at('0:0')
        ->withoutOverlapping();
}
}
```

The [documentation](#) lists all of the scheduling options at your disposal.

Running the Scheduler on Forge

Now that the code is all set up, head to the "Scheduler" page on [Laravel Forge](#).

The screenshot shows the Keybase dashboard for the organization 'vegan-hacktivists'. At the top, it displays the organization name and two IP addresses: Public IP 134.209.65.245 and Private IP 10.136.98.115. On the left sidebar, there is a list of navigation items: Sites, Database, SSH Keys, Monitoring, Backups, PHP, Packages, Nginx Templates, and Scheduler. The Scheduler item is highlighted with a red rectangular box. On the right side of the dashboard, there are sections for 'New Site' and 'Active Sites'. The 'Active Sites' section contains a table with the following entries:

	Domain
	3movies.org
	5minutes5vegans.org
	activisthub.org

⚠ Note

Only team leaders have access to Laravel Forge credentials. If you are a team leader without access, ask one of the Directors to add you to the `veganhacktivists.admin` team on Keybase. **If you are not a team leader, have them set this up for the project.**

On the Scheduler page, expand the "New Scheduled Job" section in order to set up the scheduler.

New Scheduled Job ▼

Forge allows you to schedule any recurring tasks that need to run on your server. Several common default schedules are available, or you may enter a custom cron schedule for the command. All commands should use fully qualified paths.

Command
php8.1 /home/forge/default/artisan schedule:run

User
forge

Frequency
 Every Minute
 Hourly
 Nightly
 Weekly
 Monthly
 On Reboot
 Custom

[Create](#)

The form is prefilled with everything you need, but you'll need to change a couple things.

For Isolated Projects

If the project was started in 2021 or later and was set up properly, it should be isolated. In that case, make the following changes:

1. Update the `artisan` path in the "Command" field to be `/home/USERNAME/PROJECT_NAME.org/artisan`.
2. Update the "User" field to the appropriate user for the project (same as `USERNAME` above).

More likely than not, the username is the project's domain without the dot (`.`), and the project directory is the domain. If you are unsure, visit the [list of sites](#) on Forge and check there:



For Non-Isolated Projects

If the project was started before 2021, it may not be isolated. If that's the case, update the artisan path in the "Command" field to be `/home/forge/PROJECT_NAME.org/artisan`. The "User" field can stay `forge`.

For Projects With Zero-Downtime

Deployments

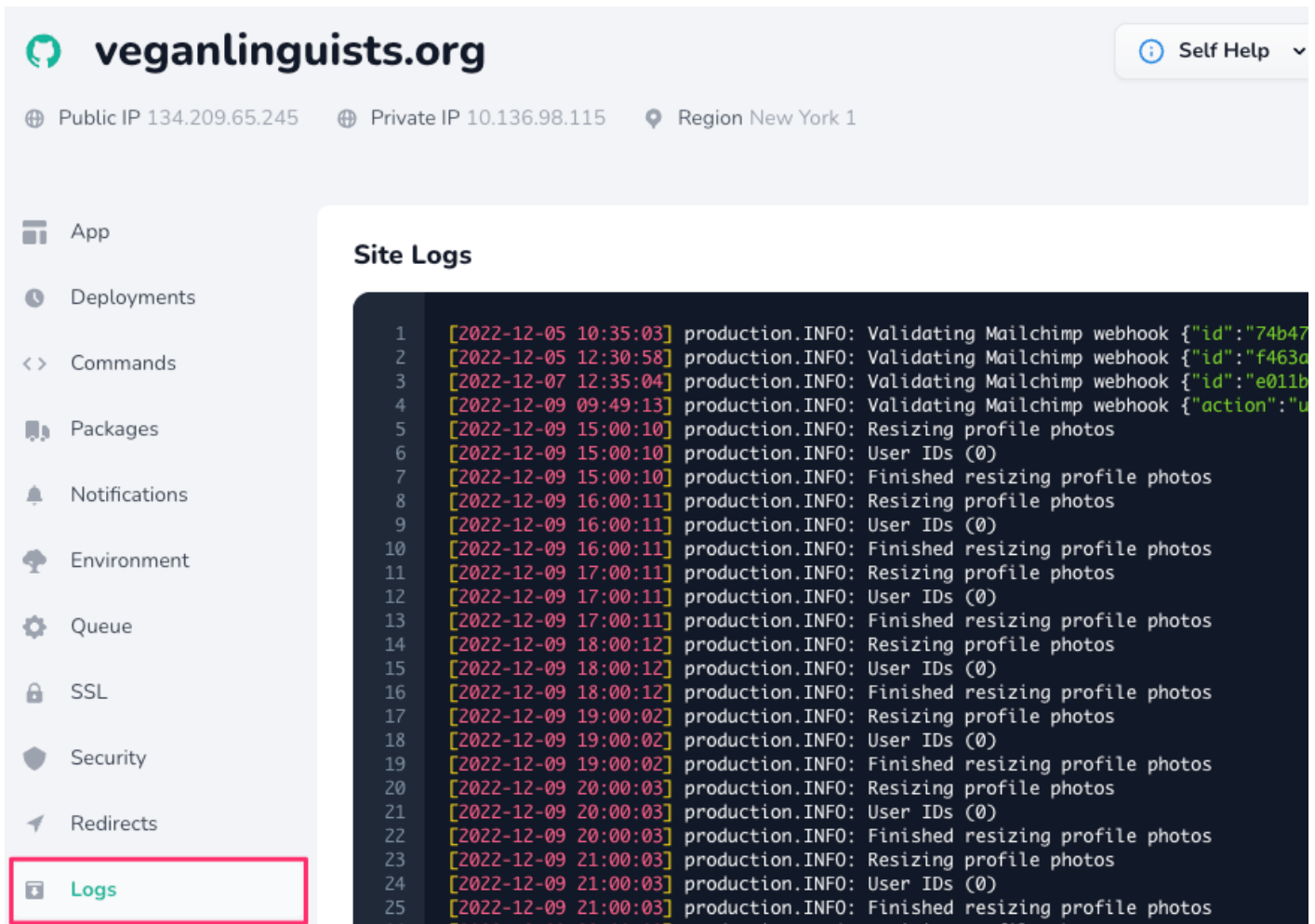
If the project is set up on Laravel Envoyer, then you'll need to make further changes to the "Command" field by adding the `/current` directory. It should follow this format:

```
/home/USERNAME/PROJECT_NAME.org/current/artisan .
```

That's It!

Your project's scheduler will now run every minute. From your project's code, you can continue to add more tasks to the scheduler and change the timing of existing tasks. You won't need to touch the cron job for this project again!

To make sure things are working, it's recommended to implement logging which can be viewed directly from Forge:



The screenshot shows the Laravel Forge interface for a project named "veganlinguists.org". The left sidebar contains navigation options: App, Deployments, Commands, Packages, Notifications, Environment, Queue, SSL, Security, Redirects, and Logs (highlighted with a red box). The main content area displays "Site Logs" with a list of log entries. Each entry consists of a line number, a timestamp in brackets, and a log message. The messages are production-level logs related to Mailchimp webhooks and profile photo resizing.

Line	Timestamp	Message
1	[2022-12-05 10:35:03]	production.INFO: Validating Mailchimp webhook {"id":"74b47
2	[2022-12-05 12:30:58]	production.INFO: Validating Mailchimp webhook {"id":"f463a
3	[2022-12-07 12:35:04]	production.INFO: Validating Mailchimp webhook {"id":"e011b
4	[2022-12-09 09:49:13]	production.INFO: Validating Mailchimp webhook {"action":"u
5	[2022-12-09 15:00:10]	production.INFO: Resizing profile photos
6	[2022-12-09 15:00:10]	production.INFO: User IDs (0)
7	[2022-12-09 15:00:10]	production.INFO: Finished resizing profile photos
8	[2022-12-09 16:00:11]	production.INFO: Resizing profile photos
9	[2022-12-09 16:00:11]	production.INFO: User IDs (0)
10	[2022-12-09 16:00:11]	production.INFO: Finished resizing profile photos
11	[2022-12-09 17:00:11]	production.INFO: Resizing profile photos
12	[2022-12-09 17:00:11]	production.INFO: User IDs (0)
13	[2022-12-09 17:00:11]	production.INFO: Finished resizing profile photos
14	[2022-12-09 18:00:12]	production.INFO: Resizing profile photos
15	[2022-12-09 18:00:12]	production.INFO: User IDs (0)
16	[2022-12-09 18:00:12]	production.INFO: Finished resizing profile photos
17	[2022-12-09 19:00:02]	production.INFO: Resizing profile photos
18	[2022-12-09 19:00:02]	production.INFO: User IDs (0)
19	[2022-12-09 19:00:02]	production.INFO: Finished resizing profile photos
20	[2022-12-09 20:00:03]	production.INFO: Resizing profile photos
21	[2022-12-09 20:00:03]	production.INFO: User IDs (0)
22	[2022-12-09 20:00:03]	production.INFO: Finished resizing profile photos
23	[2022-12-09 21:00:03]	production.INFO: Resizing profile photos
24	[2022-12-09 21:00:03]	production.INFO: User IDs (0)
25	[2022-12-09 21:00:03]	production.INFO: Finished resizing profile photos
26	[2022-12-09 22:00:03]	production.INFO: Resizing profile photos

If you would like to see the output of the actual cron job which runs every minute, you can also do this in Forge:

New Scheduled Job

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Scheduled Jobs

ID	Frequency	Cron	User	Command	Status
414515	Weekly	0 0 * * 0	root	apt1.orgget autoremove && apt1.orgget autoclean	Active
614584	Custom	15 6 * * *	root	/usr/local/bin/composer self1.orgupdate 1.org1.org1.org	Active
750022	Minutely	* * * * *	forge	php /home/forge/veganbootcamp.org/artisan schedule:run >>	Active
1009432	Minutely	* * * * *	veganlinguistsorg	php8.0 /home/veganlinguistsorg/veganlinguists.org/artisan	Active
1046675	Minutely	* * * * *	forge	php7.3 /home/forge/5minutes5vegans.org/artisan	
1061711	Minutely	* * * * *	activisthuborg	php8.1 /home/activisthuborg/activisthub.org/art	

Show Output

Show Next Runs

Pause Job

Delete Job

[Destroy Server](#)

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