

# Deploying serverless PHP applications

# Matthieu Napoli

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[github.com/mnapoli](https://github.com/mnapoli)

**PHP is weird**

| <? php

**Serverless**

**Resource**

**Resource**

**Service**

# Storage as a Service



**Storage** as a Service

**Database** as a Service

**Storage** as a Service

**Database** as a Service

**Cache** as a Service

**Storage** as a Service

**Database** as a Service

**Cache** as a Service

**Auth** as a Service

**Storage** as a Service

**Database** as a Service

**Cache** as a Service

**Auth** as a Service

**Search** as a Service

# Operations

**Operations**

**Scalability**

**Operations**

**Scalability**

**Costs**

# Function as a Service









Events

Events

Stateless

| <? php

**1 request = 1 process**

# Operations



## Function code [Info](#)

Code entry type

Upload a .ZIP file



Runtime

Node.js 6.10



Handler [Info](#)

handler.handle

Function package\*

 Upload

For files larger than 10 MB, consider uploading via S3.

# Python

```
def handler(event, context):  
    return 'hello ' + event['name']
```

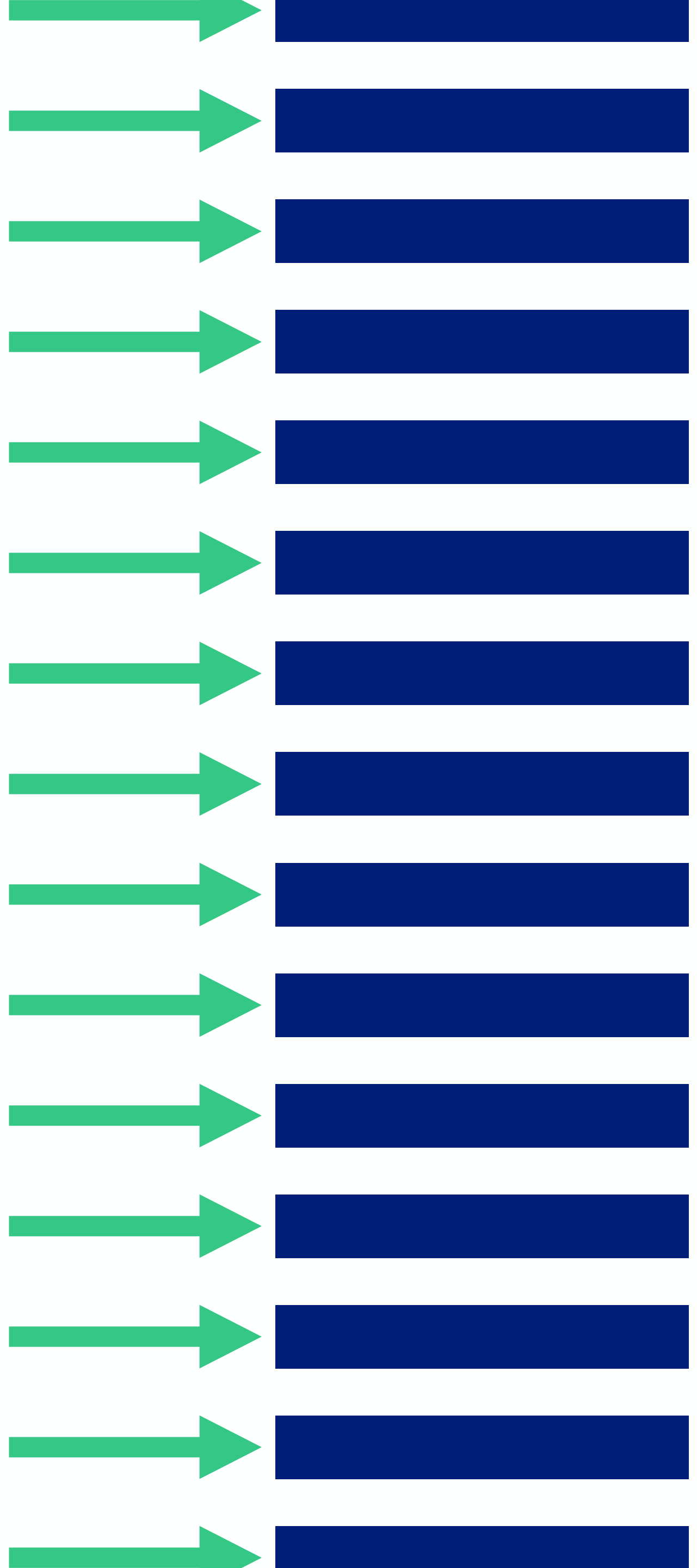
```
exports.handler = function (event, context, callback) {  
    let result = 'hello ' + event.name;  
  
    callback(null, result);  
};
```

# JavaScript

**Operations**

**Scalability**

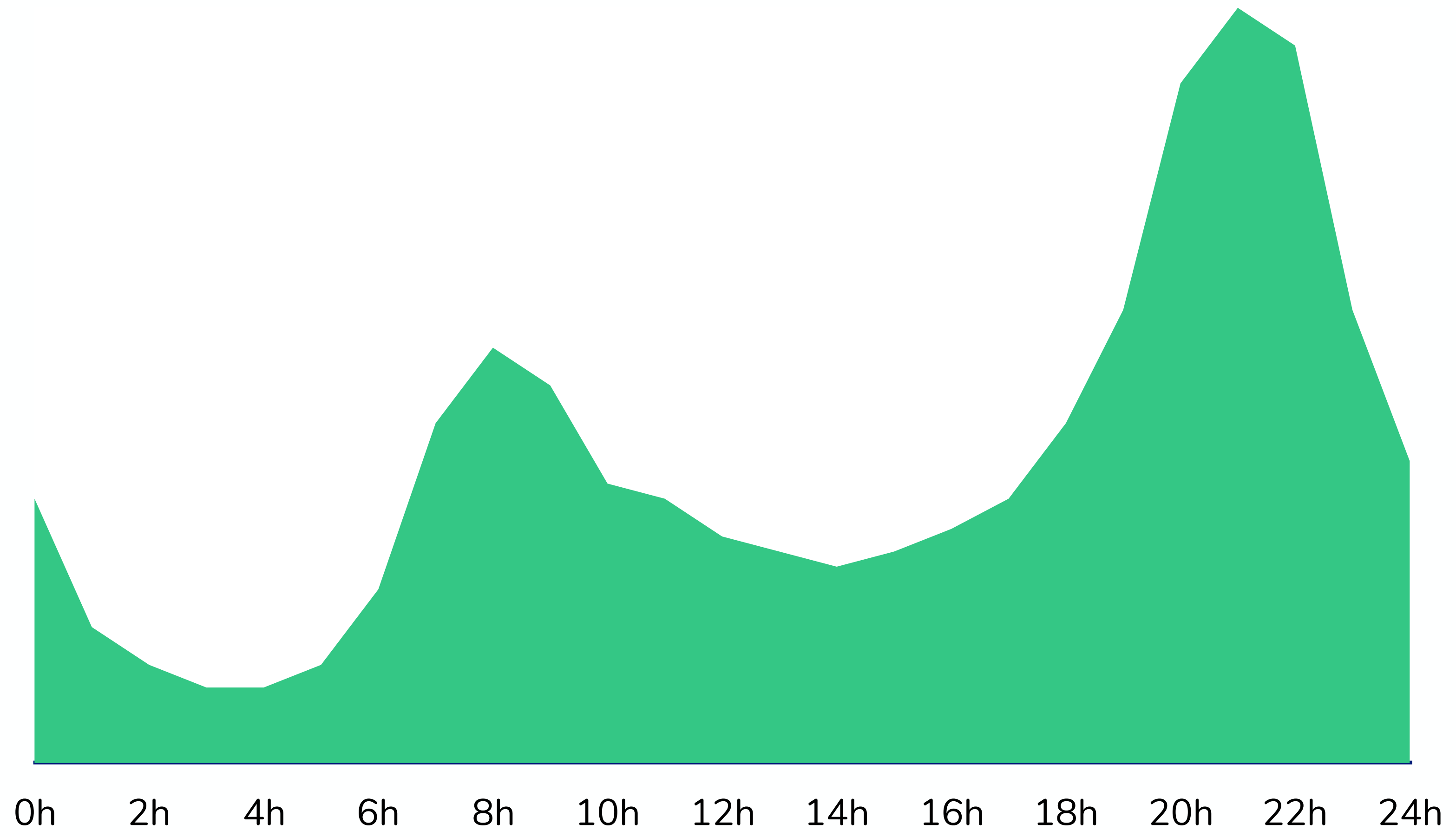


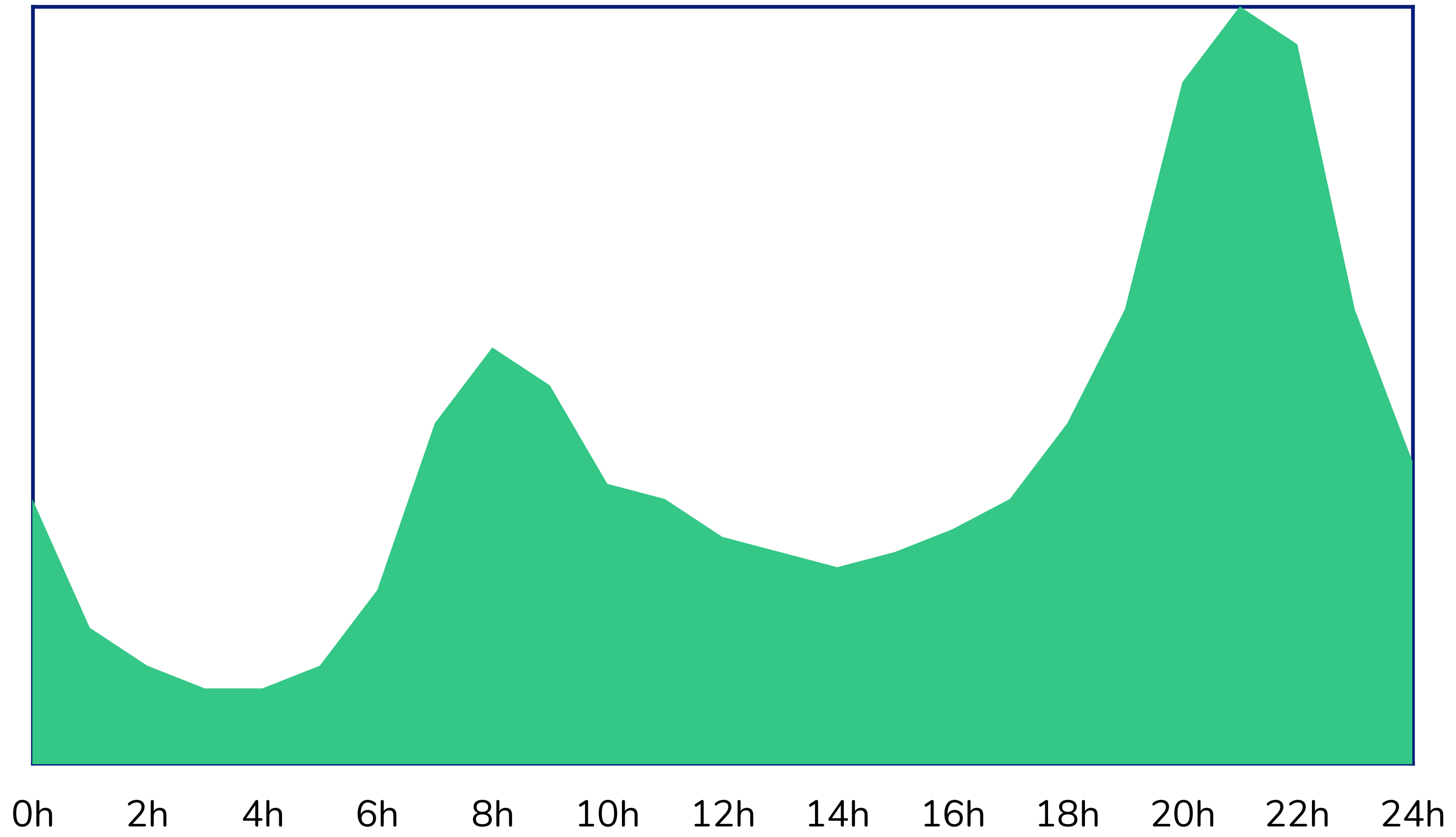


**Operations**

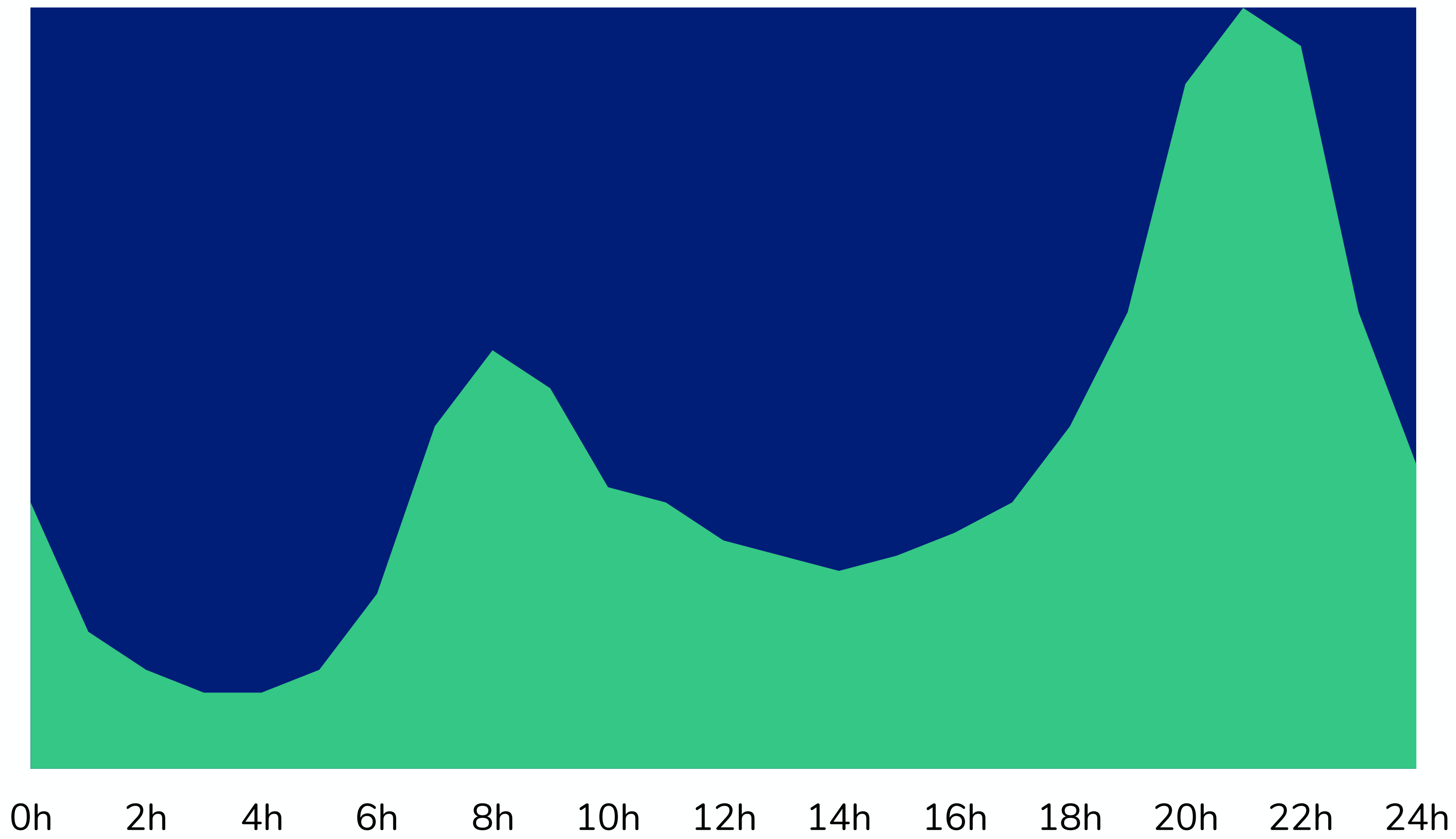
**Scalability**

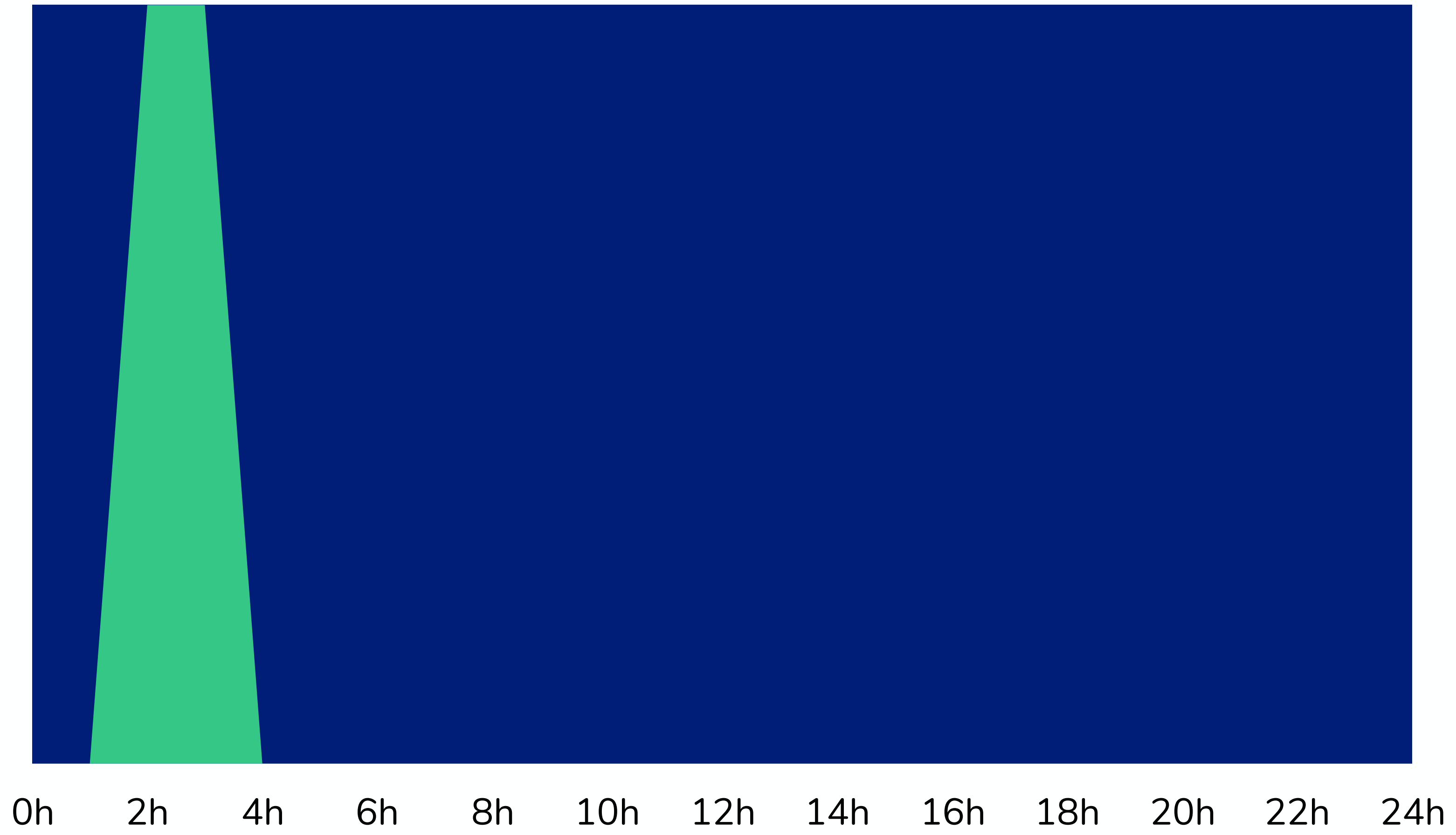
**Costs**













**PHP**

```
require __DIR__.' /vendor/autoload.php';  
  
λ(function (array $event) {  
    return 'hello ' . $event['name'];  
});
```

# Bref

[github.com/mnapoli/bref](https://github.com/mnapoli/bref)

PHP support

PHP support

Deployment

PHP support

Deployment

Framework integrations



```
use ...;

$kernel = new App\Kernel(...);

// $request = Request::createFromGlobals();
// $response = $kernel->handle($request);
// $response->send();
// $kernel->terminate($request, $response);

$bref = new Bref\Application;
$bref->httpHandler(new SymfonyAdapter($kernel));
$bref->run();
```

# Performances

# Overhead

# Overhead

Node

PHP

# Overhead

	Node	PHP
128M	8ms	320ms

# Overhead

	Node	PHP
128M	8ms	320ms
512M	8ms	65ms

# Overhead

	Node	PHP
128M	8ms	320ms
512M	8ms	65ms
1024M	0ms	25ms

# Overhead

	Node	PHP
128M	8ms	320ms
512M	8ms	65ms
1024M	0ms	25ms
2048M	0ms	21ms



**What to expect**

Database

Database

Filesystem

Database

Filesystem

Logging

Database

Filesystem

Logging

Assets

Database

Filesystem

Logging

Assets

APCu

# Case studies

```
<?php  
  
function foo($x)  
{  
    return ($x >= 1) && ($x <= 1) && ($x !== 1);  
}
```

foo( 1. )  Score: 2

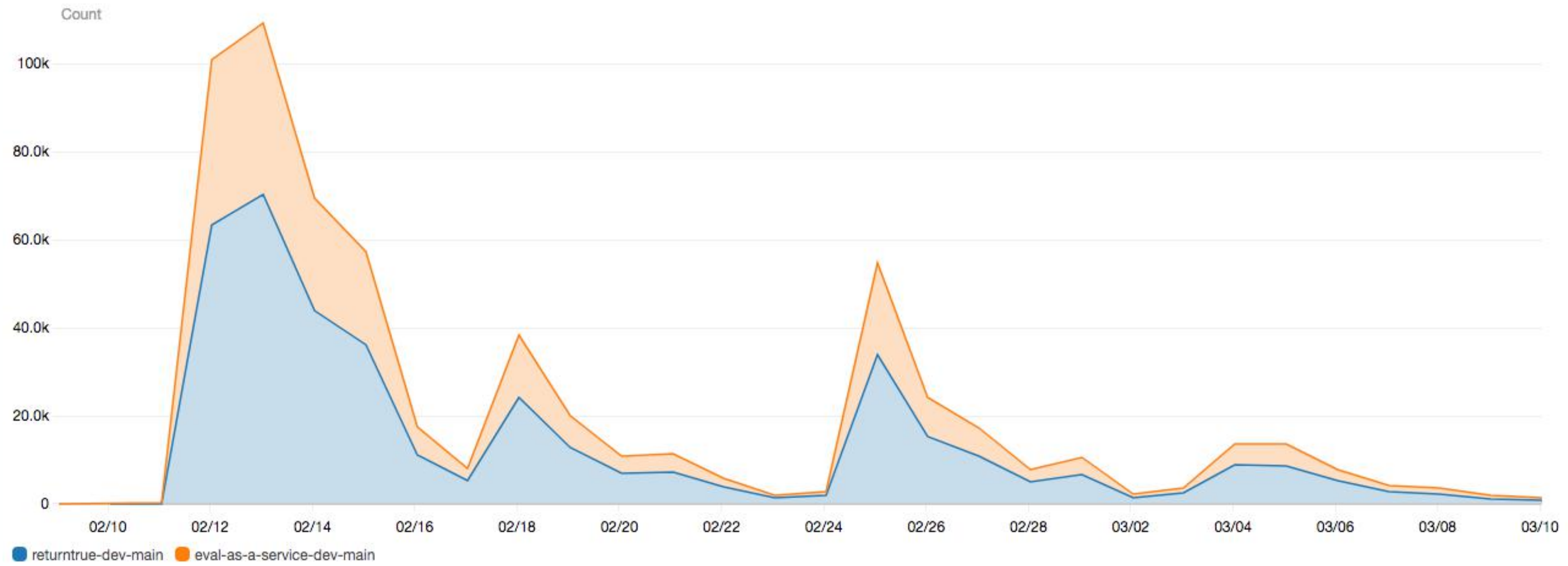
true

Well done! Move to the [next step](#)

# Return true to win

[returntrue.win](http://returntrue.win)





400k HTTP requests  
650k executions

\$3

[returntrue.win](https://returntrue.win)

<> Code Pull requests 1 Releases More Settings

## PR: Update Application.php #1

[Open](#) mnapoli wants to merge 1 commit into master from feature-branch-1

Conversation 1 Commits 1 Checks 1 Files changed 1

54a2d5e — Update Application.php

**PrettyCI**  
Failed — 7 days ago [Re-run all](#)

**Failure**  
built 7 days ago in less than 5 seconds  
54a2d5e by @mnapoli

### Code formatting

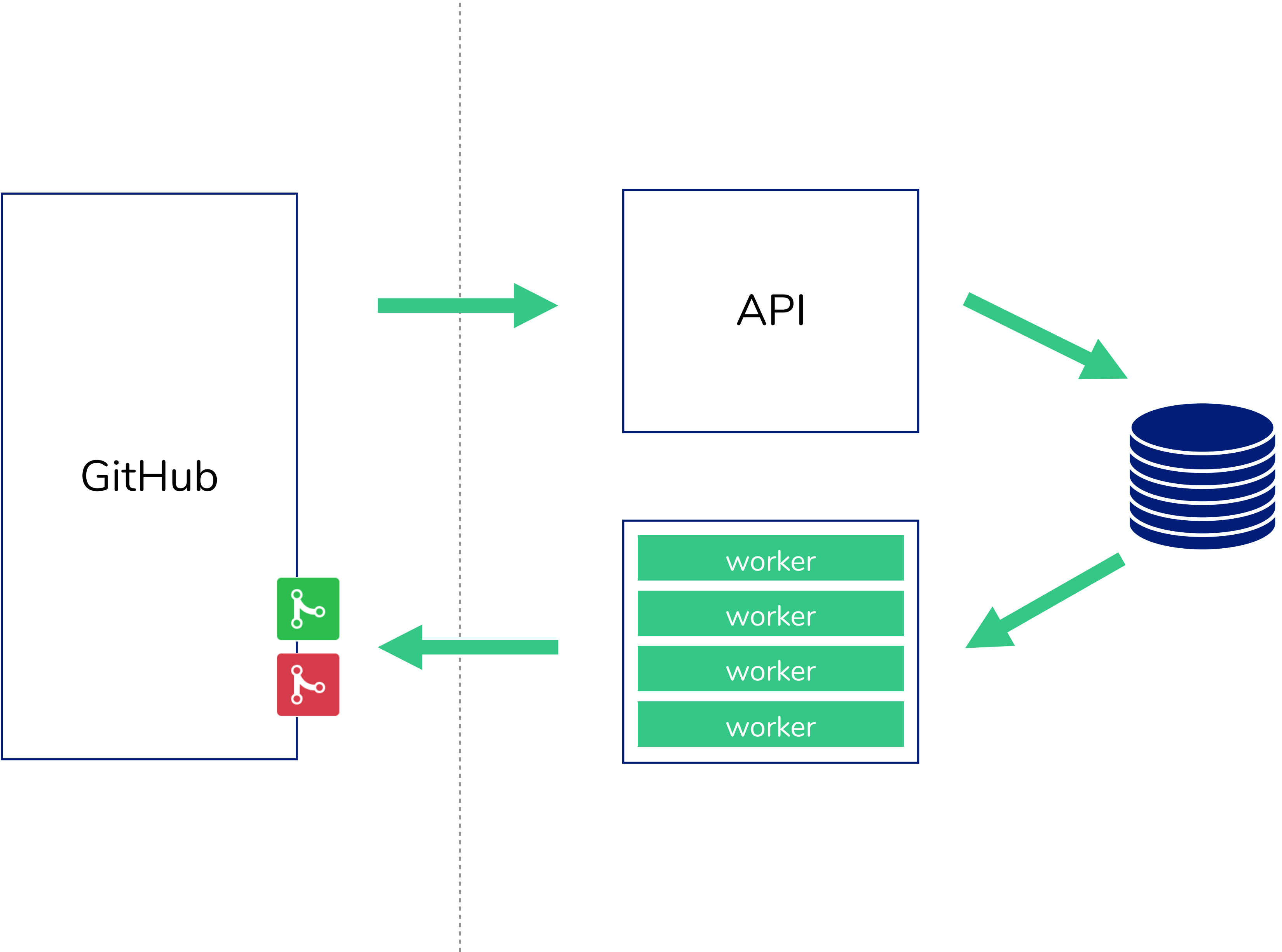
DETAILS

```
No configuration file found, running PHP CodeSniffer with PSR-2

FILE: src/Foo.php
-----
FOUND 15 ERRORS AFFECTING 3 LINES
-----
3 | ERROR | [ ] Each class must be in a namespace of at least one
   |       | level (a top-level vendor name)
3 | ERROR | [ ] Class name "Foo_test" is not in camel caps format
3 | ERROR | [x] Opening brace of a class must be on the line after
   |       | the definition
5 | ERROR | [x] Line indented incorrectly; expected 4 spaces, found
   |       | 0
5 | ERROR | [ ] Visibility must be declared on method "test"
```

# PrettyCI

[prettyci.com](https://prettyci.com)





2 approving reviews

[Show all reviewers](#)



4 pending and 1 successful checks

[Hide all checks](#)



continuous-integration/appveyor/branch *Pending — Waiting for AppVeyor ...*

[Details](#)



continuous-integration/appveyor/pr *Pending — Waiting for AppVeyor build ...*

[Details](#)



continuous-integration/travis-ci/pr *Pending — The Travis CI build is in prog...*

[Details](#)



continuous-integration/travis-ci/push *Pending — The Travis CI build is in p...*

[Details](#)



PrettyCI — Code formatting

[Details](#)



This branch has no conflicts with the base branch



built 7 days ago in less than 5 seconds



Professionnels, économisez du temps et de l'argent sur  
vos factures énergétiques

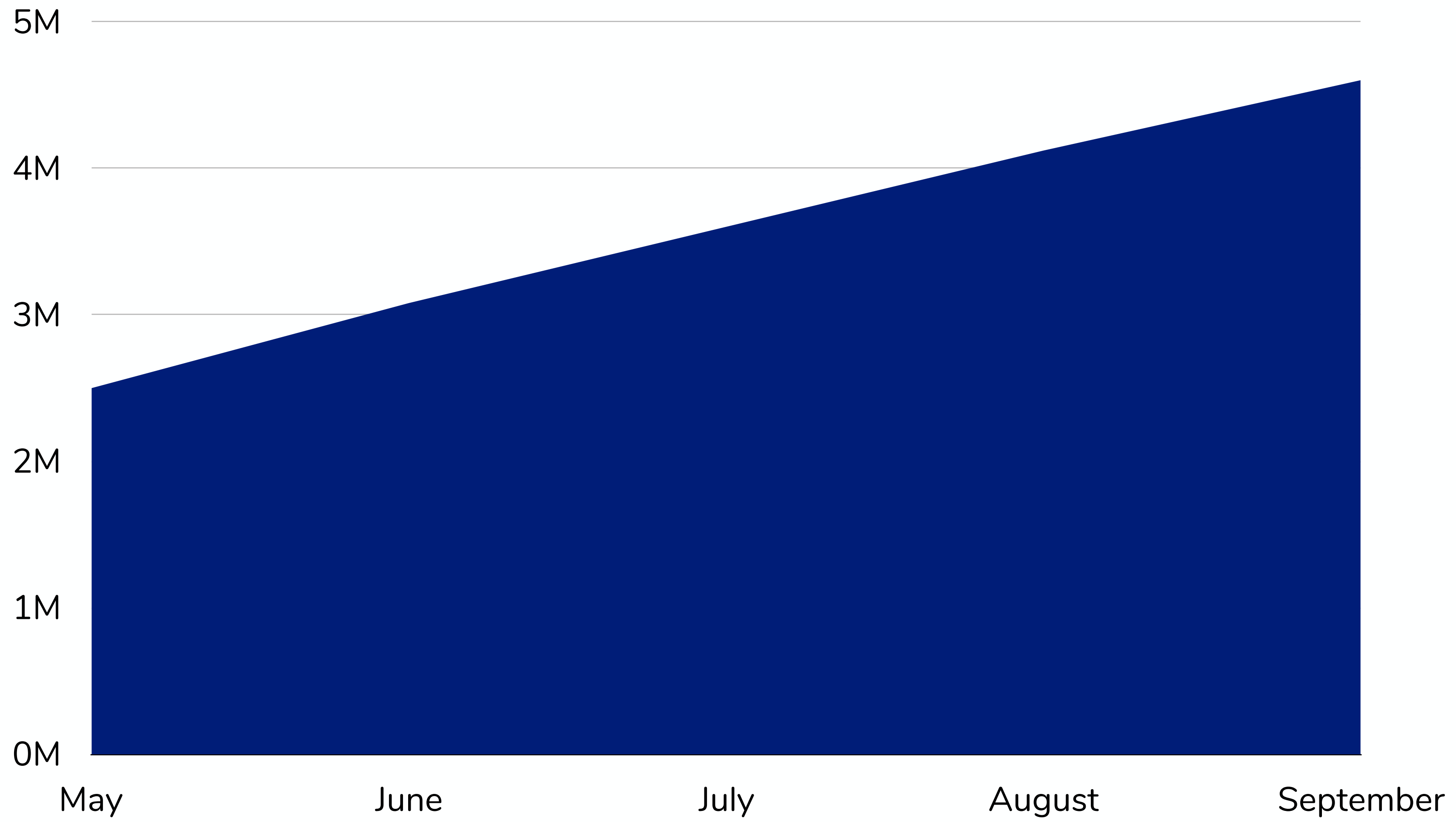
Enoptea, la solution pour la gestion de vos coûts énergétiques

[DÉCOUVRIR NOTRE SOLUTION](#)

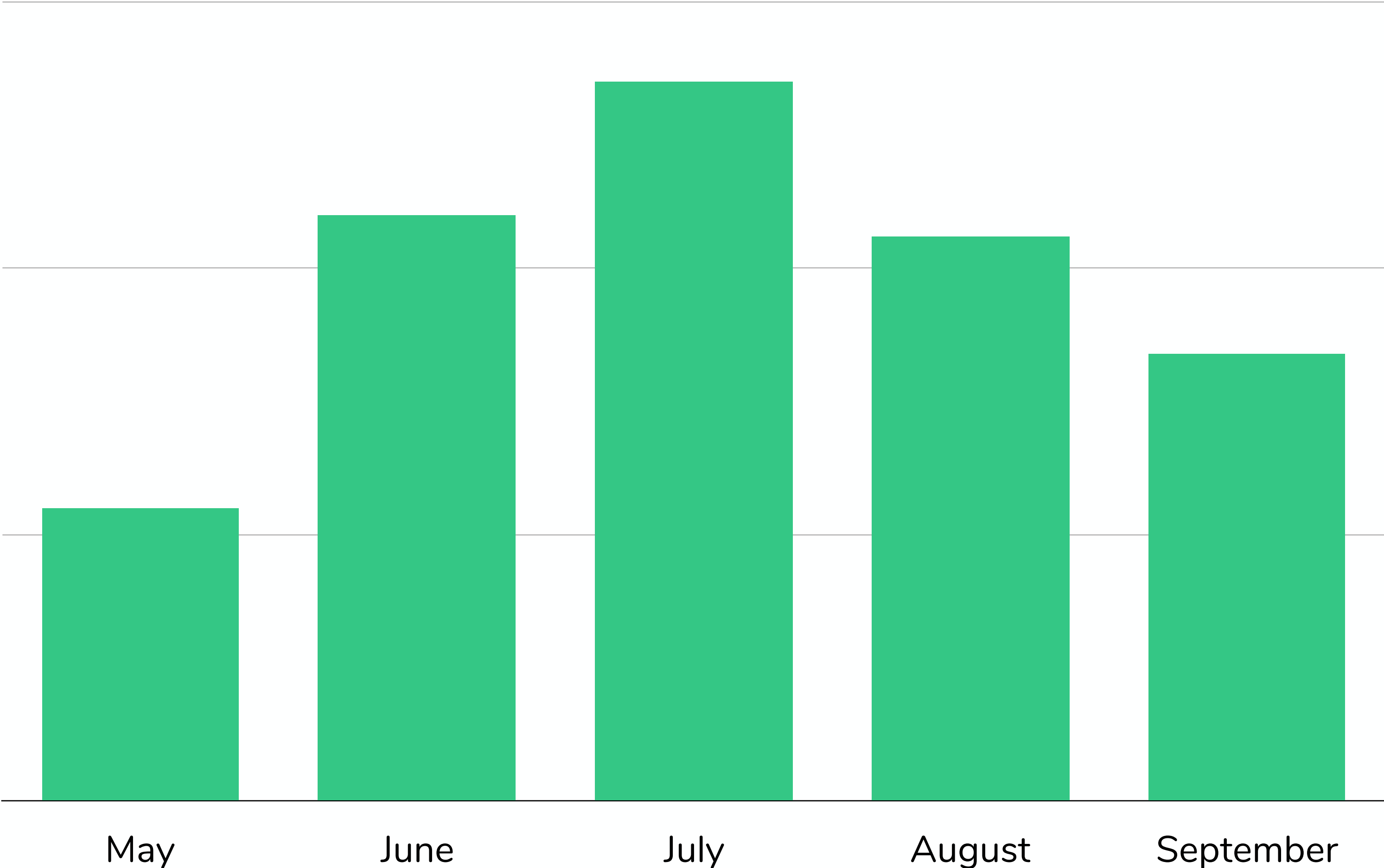
# Enoptea

[enoptea.fr](https://enoptea.fr)

**170k jobs/day**







**\$800** -> **\$90**

?

is  
serverless  
mature?

hack!

experiment!

learn!

@matthieunapoli

[github.com/mnapoli/bref](https://github.com/mnapoli/bref)

[prettyci.com](https://prettyci.com)