

Serverless & PHP

Where did the server go?

Matthieu Napoli

github.com/mnapoli

Serverless

Resource

Service

Storage as a Service

Database as a Service

Cache as a Service

Auth as a Service

Search as a Service

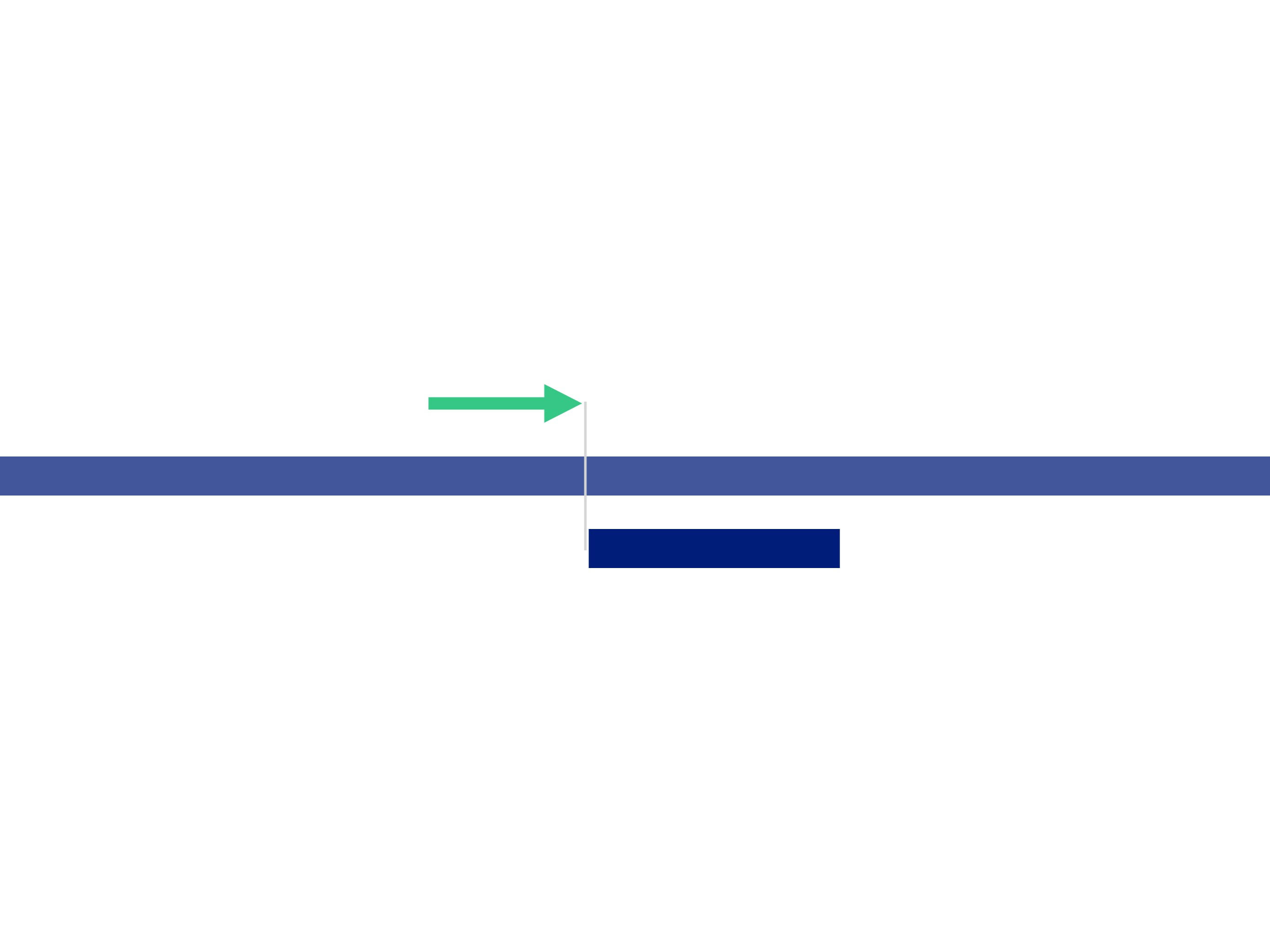
Operations

Scalability

Costs

Function as a Service







Events

Stateless

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']
```

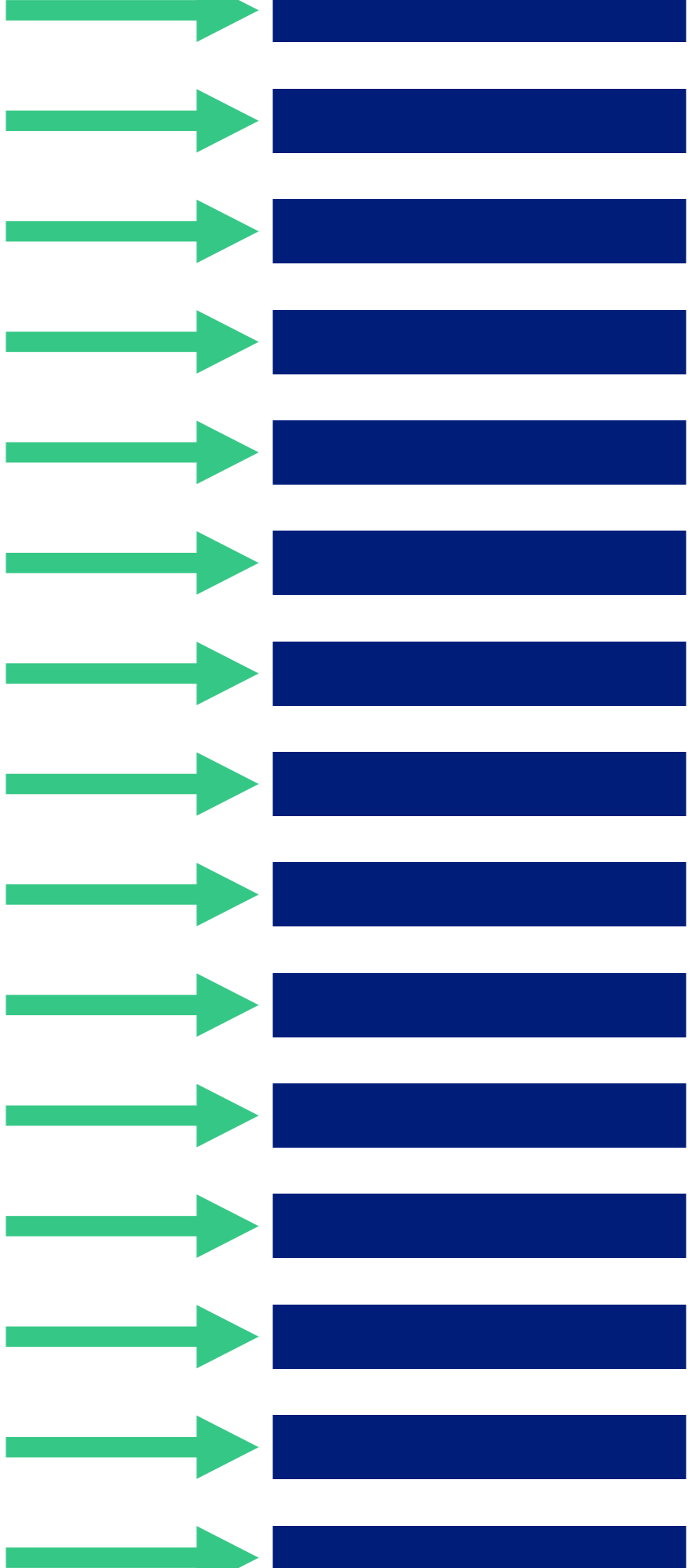
```
exports.handler = function (event, context, callback) {  
    let result = 'hello ' + event.name;  
  
    callback(null, result);  
};
```

JavaScript

Operations

Scalability

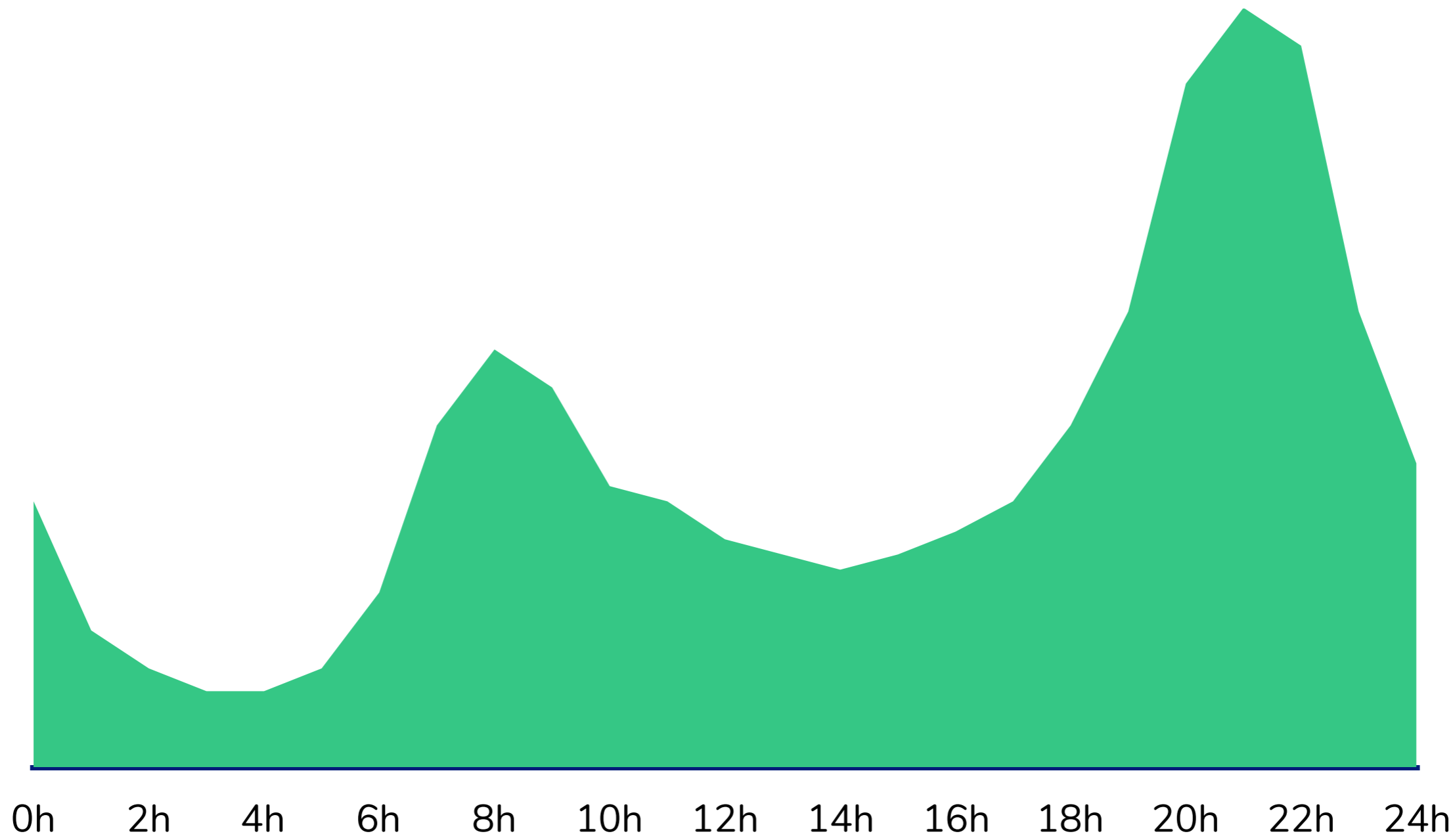


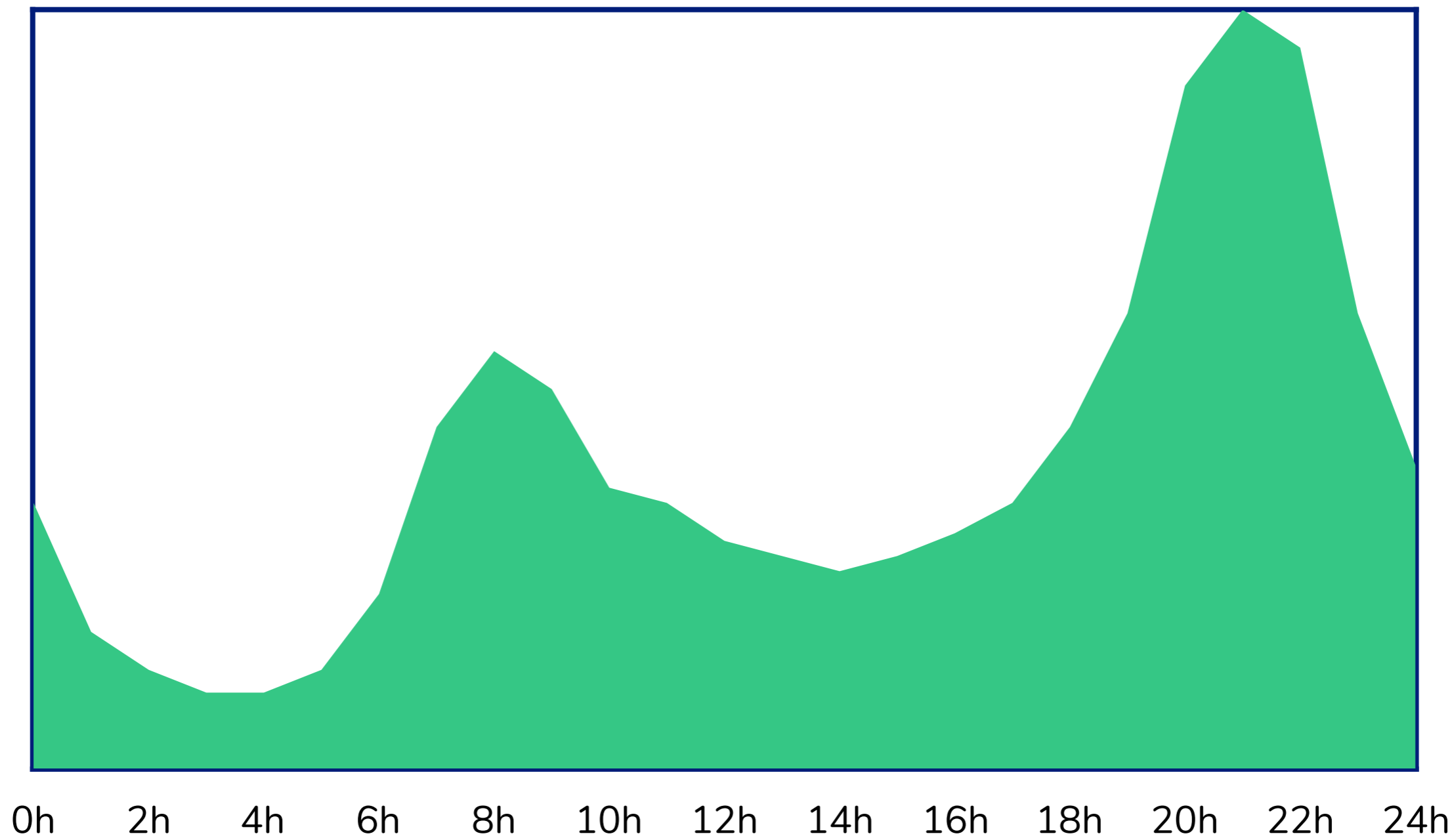


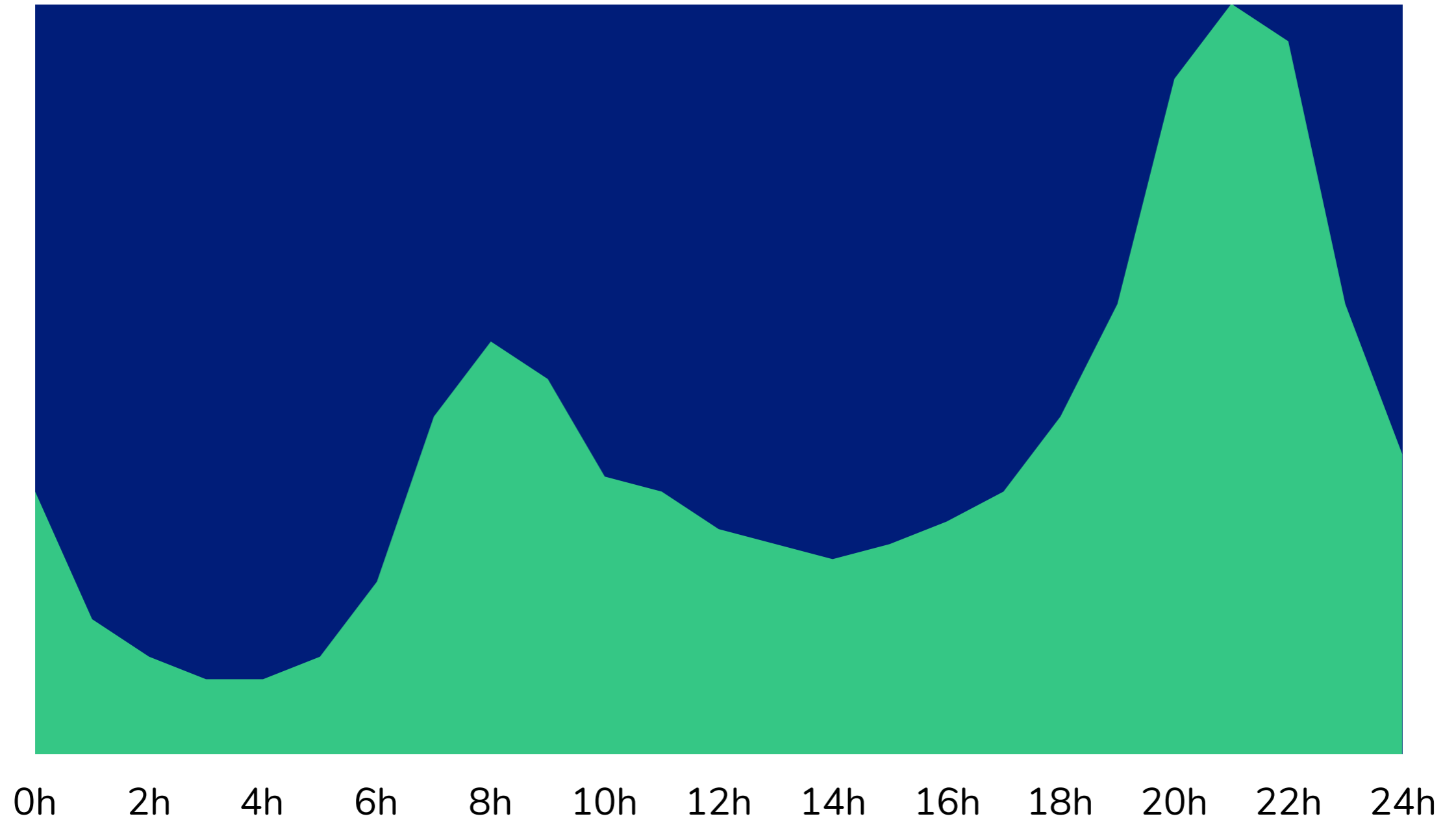
Operations

Scalability

Costs









0h 2h 4h 6h 8h 10h 12h 14h 16h 18h 20h 22h 24h



PHP


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

Bref

github.com/mnapoli/bref

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();
```

```
$ bin/console doctrine:query:sql 'SELECT * FROM product'  
# ...
```

```
$ bref cli -- doctrine:query:sql 'SELECT * FROM product'  
# ...
```

Performances

Overhead

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

API Gateway

+15 ms

Cold starts

	Python	Node	PHP	Java	C#
128M	1ms	21ms	1261ms	3562ms	4387ms
512M	0ms	3ms	336ms	999ms	1223ms
1024M	0ms	2ms	210ms	530ms	524ms

What to expect

Database

Filesystem

Logging

Assets

APCu

Case studies

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

foo(

1.

)

Submit

Score: 2

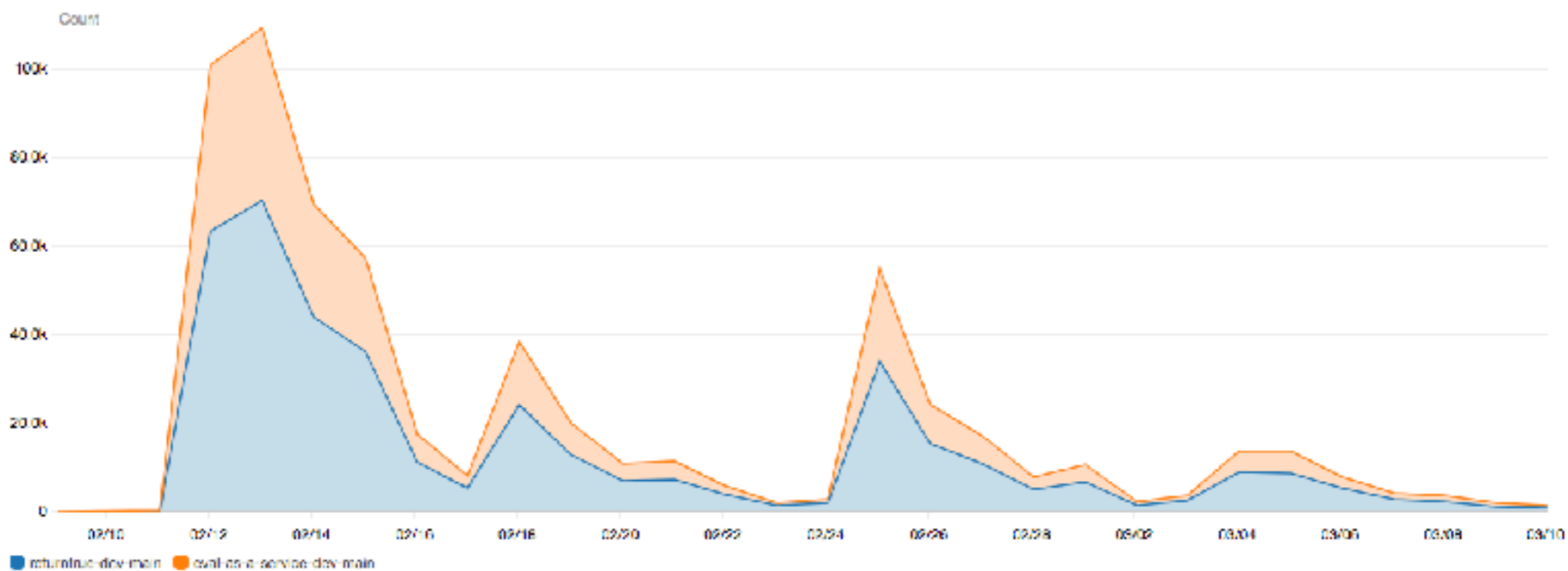
true

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

Your score: 2

Return true to win

[returntrue.win](#)



400k HTTP requests
650k executions

\$3

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)

saazde — Update Application.php

PrettyCI
Failed — 7 days ago Re-run all

PrettyCI

PrettyCI

Failure

built 7 days ago in less than 5 seconds

saazde by @mnapoli

Code formatting














DETAILS


```
No configuration file found, running PHP CodeSniffer with PSR-2  
FILE: src/foo.php  
-----  
FOUND 5 ERRORS AFFECTING 3 LINES  
-----  
3 | ERROR | [ ] Each class must be in a namespace of at least one  
   |       | level (a top-level vendor name)  
1 | 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



 2 approving reviews	Show all reviewers
 4 pending and 1 successful checks	Hide all checks
  continuous-integration/appveyor/branch <i>Pending — Waiting for AppVeyor ...</i>	Details
  continuous-integration/appveyor/pr <i>Pending — Waiting for AppVeyor build ...</i>	Details
  continuous-integration/travis-ci/pr <i>Pending — The Travis CI build is in prog...</i>	Details
  continuous-integration/travis-ci/push <i>Pending — The Travis CI build is in p...</i>	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

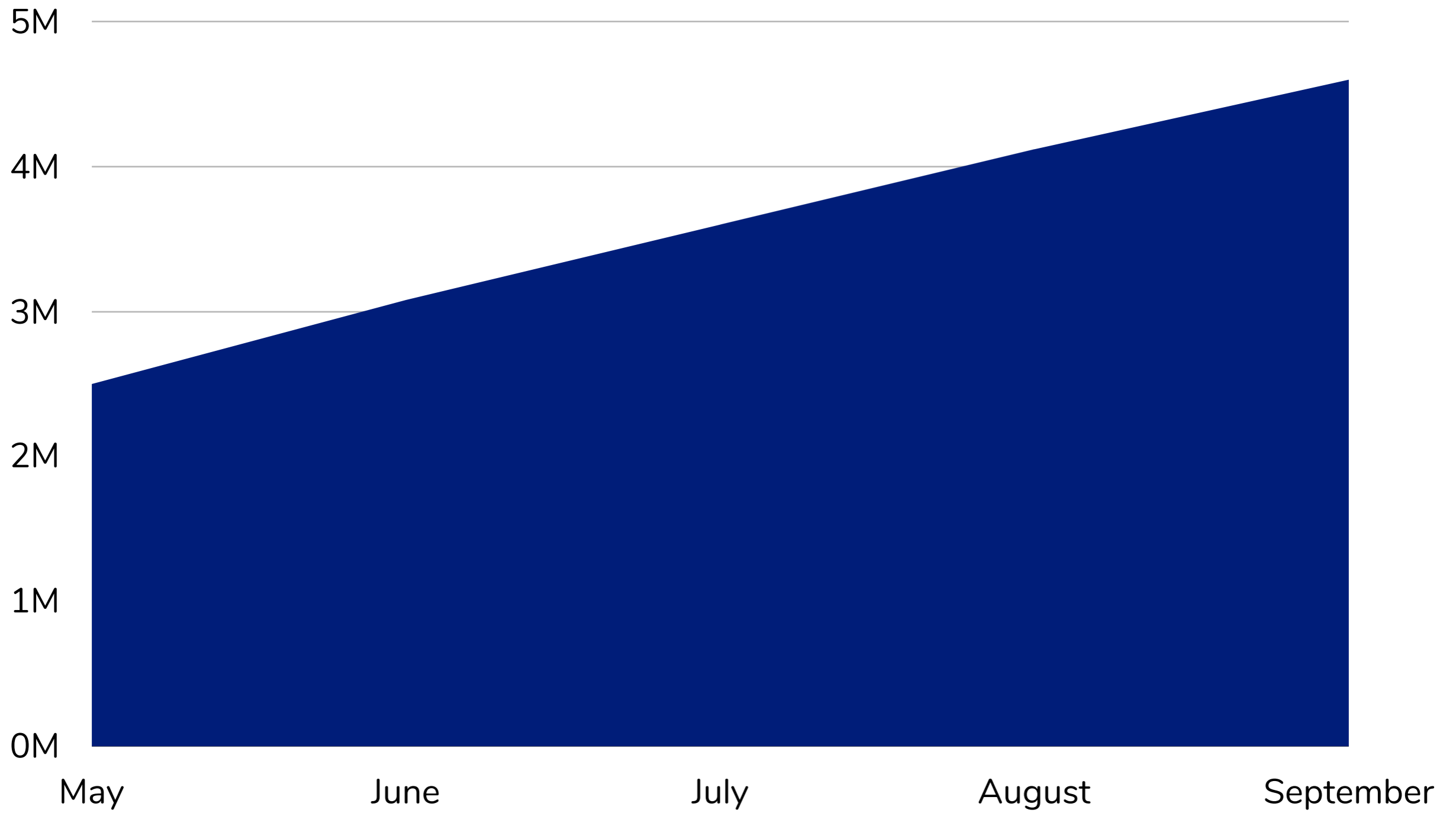
Enoptea, la solution pour la gestion de vos coûts énergétiques

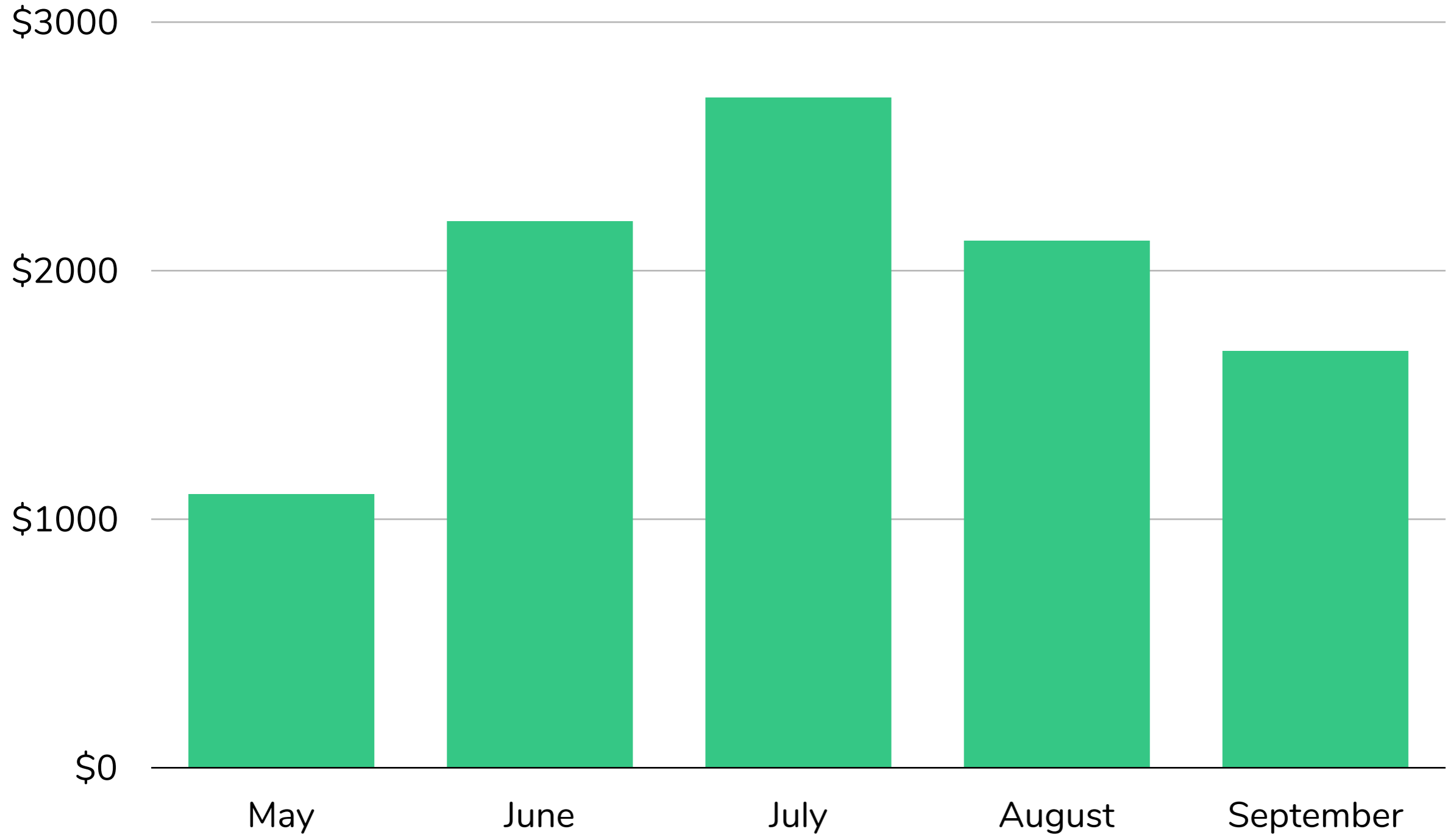
DÉCOUVRIR NOTRE SOLUTION

Enoptea

enoptea.fr

170k jobs/day





\$800 \rightarrow **\$90**

?

is
serverless
mature?

hack!

experiment!

learn!

@matthieunapoli

github.com/mnapoli/bref

prettyci.com