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

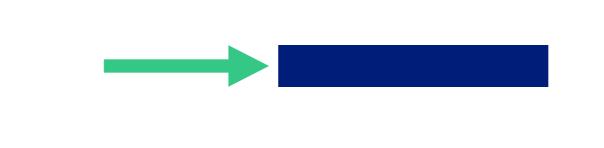
Search as a Service

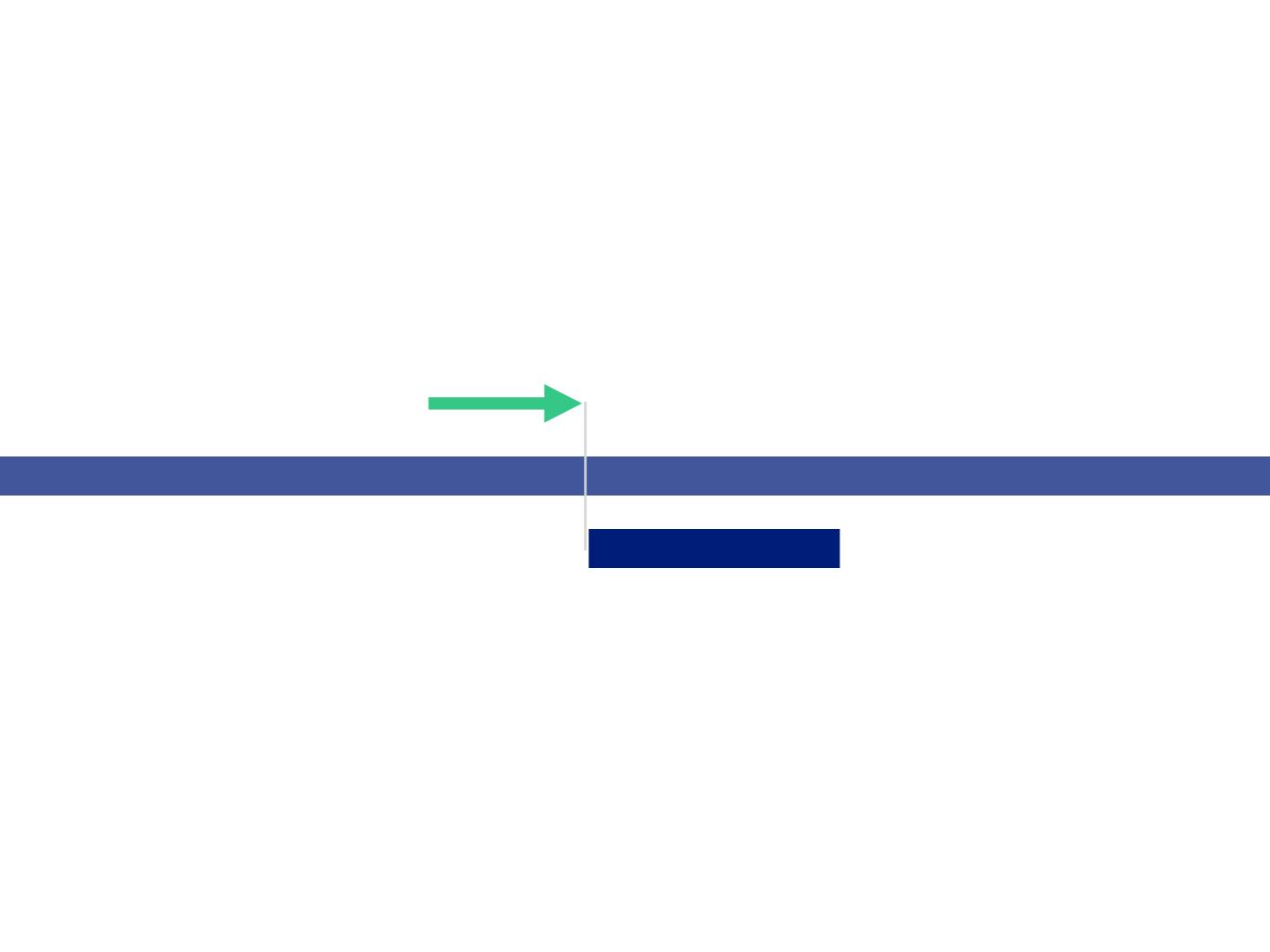
Operations

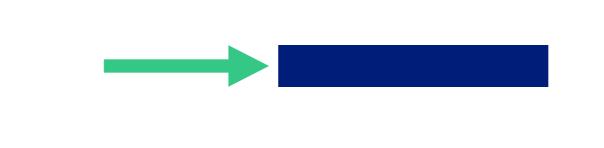
Scalability

Costs

Function as a Service



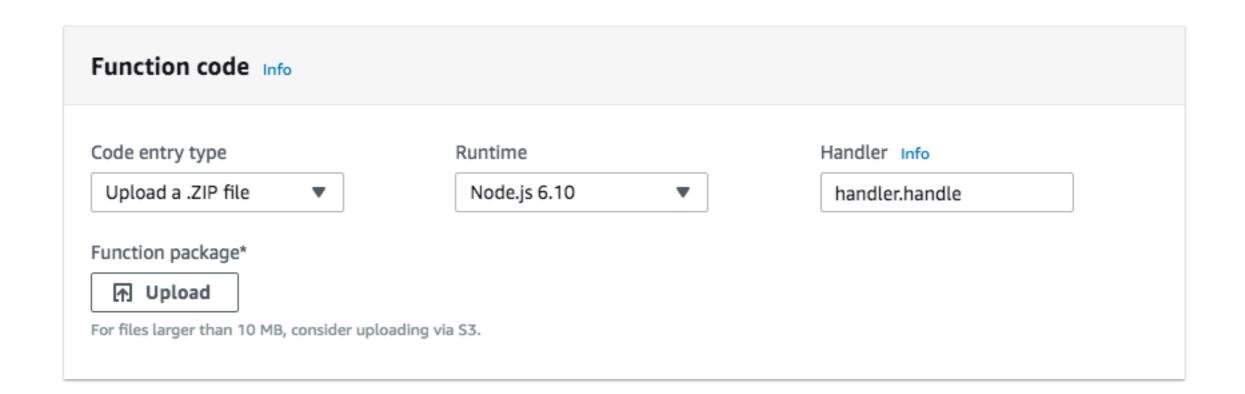




Events

Stateless

Operations



Python

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

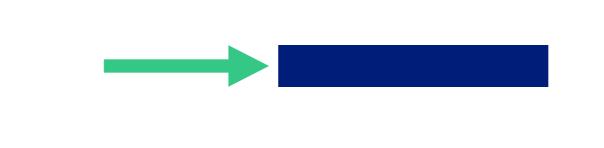
```
exports.handler = function (event, context, callback) {
   let result = 'hello ' + event.name;

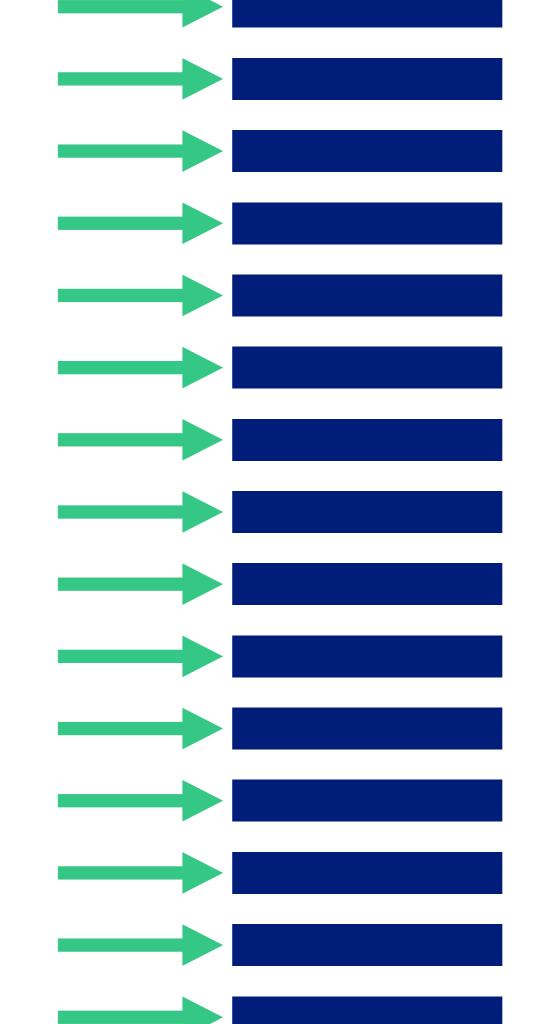
   callback(null, result);
};
```

JavaScript

Operations

Scalability

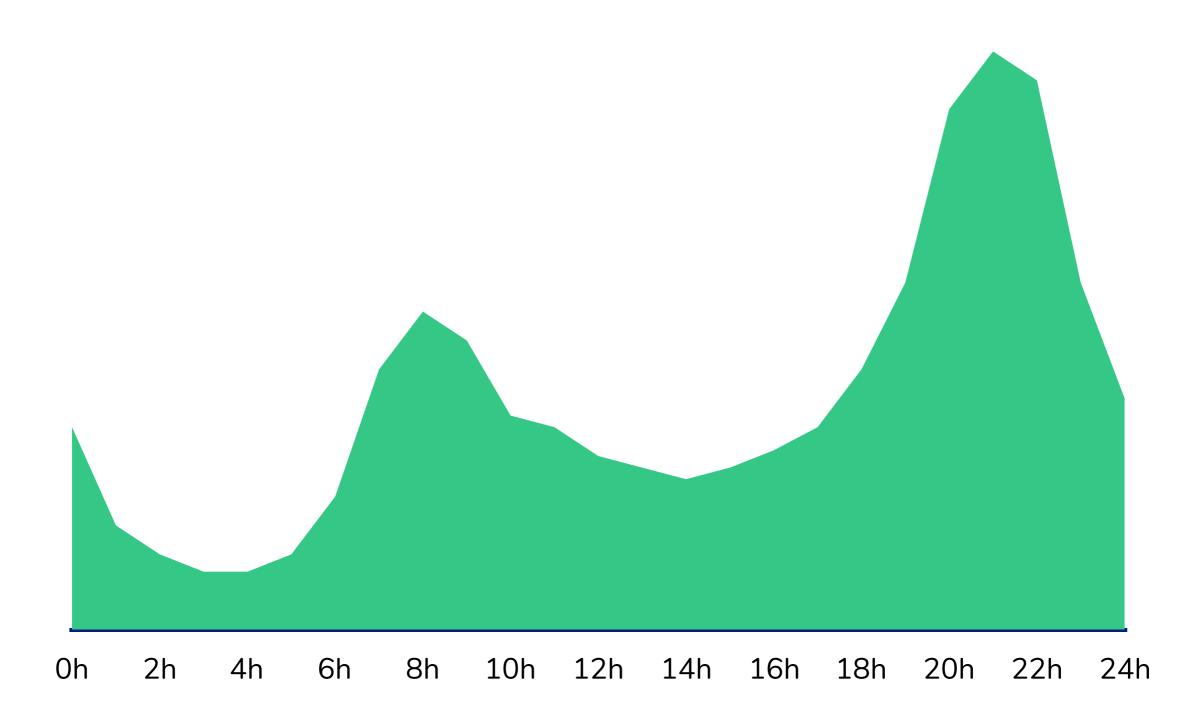


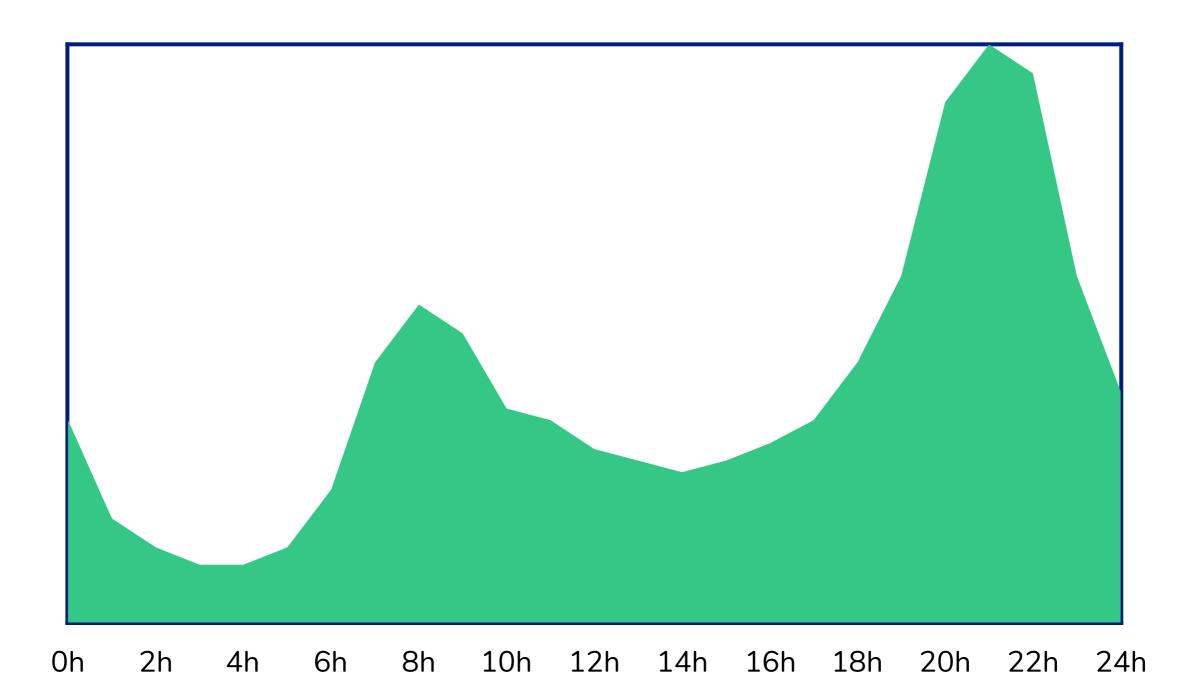


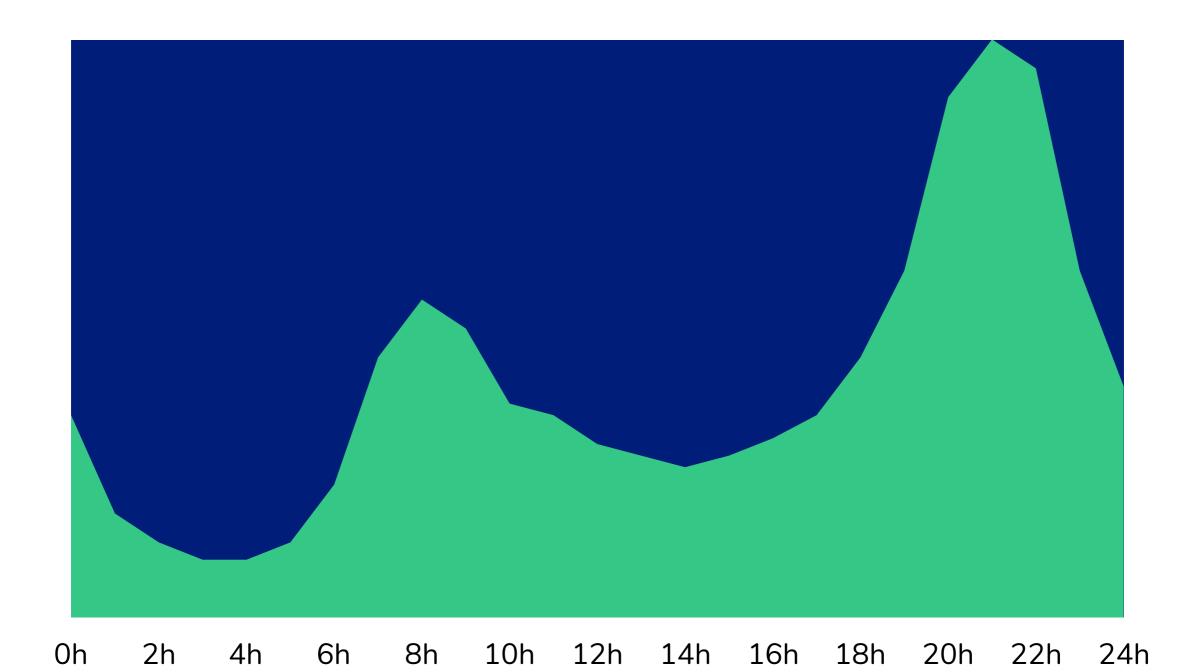
Operations

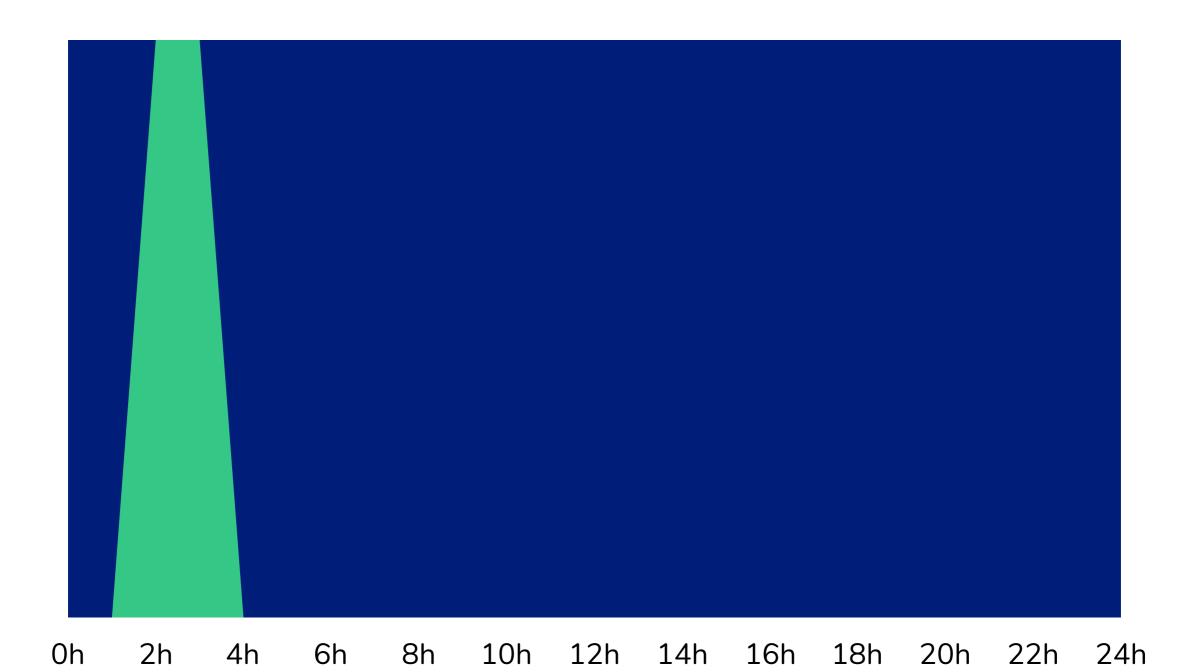
Scalability

Costs

























PHP

```
require __DIR__.'/vendor/autoload.php';

λ(function (array $event) {
    return 'hello ' . $event['name'];
});
```

Bref

github.com/mnapoli/bref

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

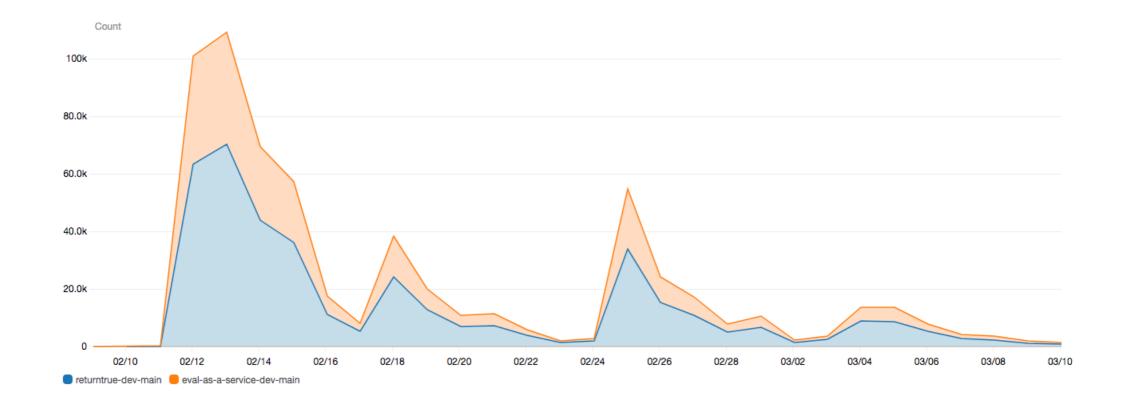
Assets

APCu

Case studies

Return true to win

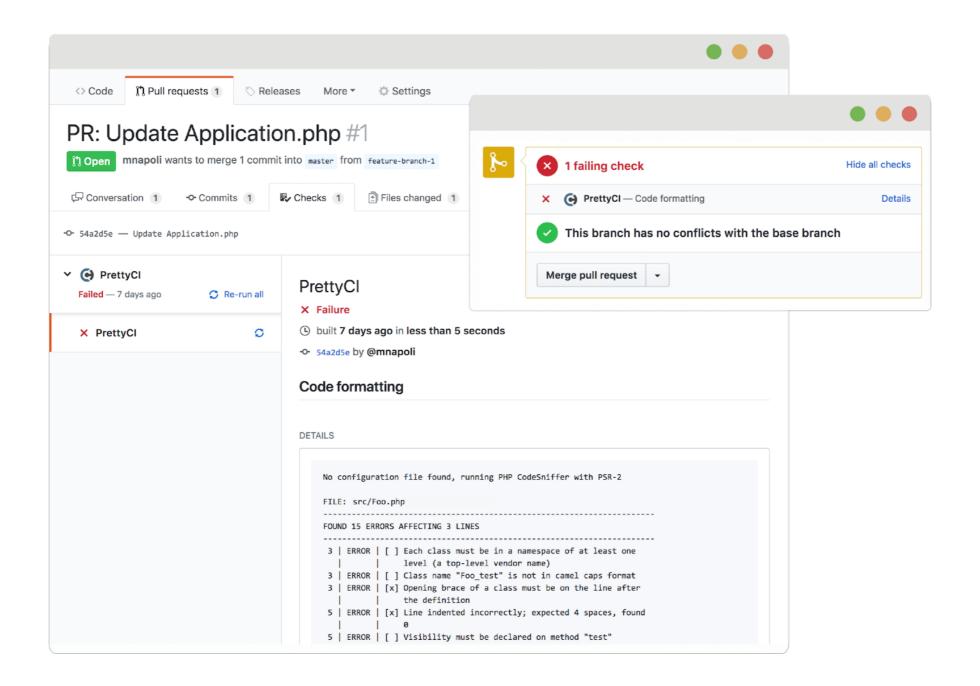
returntrue.win



400k HTTP requests 650k executions

\$3

returntrue.win



PrettyCl

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 	or Details
 continuous-integration/appveyor/pr Pending — Waiting for AppVeyor build 	ld Details
 continuous-integration/travis-ci/pr Pending — The Travis CI build is in pre 	og Details
 continuous-integration/travis-ci/push Pending — The Travis CI build is in 	p Details
✓ (e) PrettyCl — Code formatting	Details
This branch has no conflicts with the base branch	

(b) built 7 days ago in less than 5 seconds

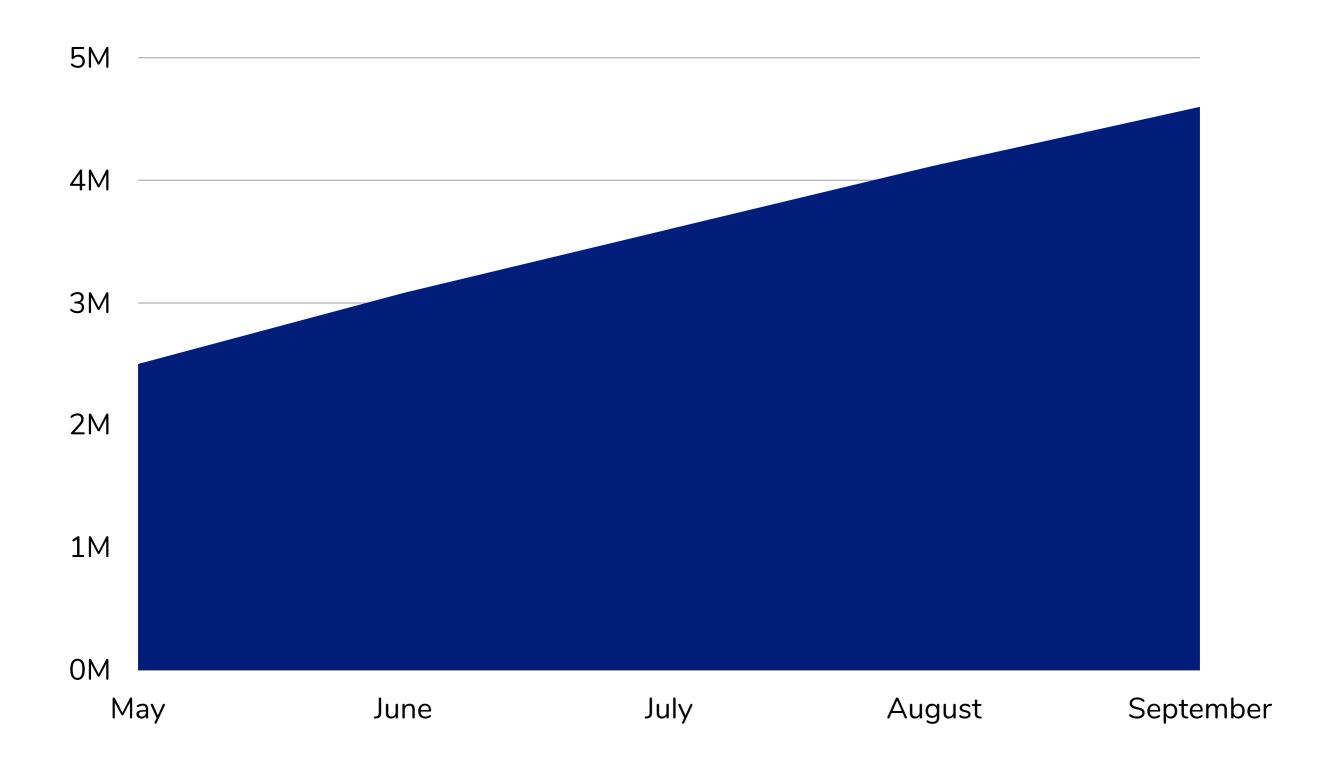


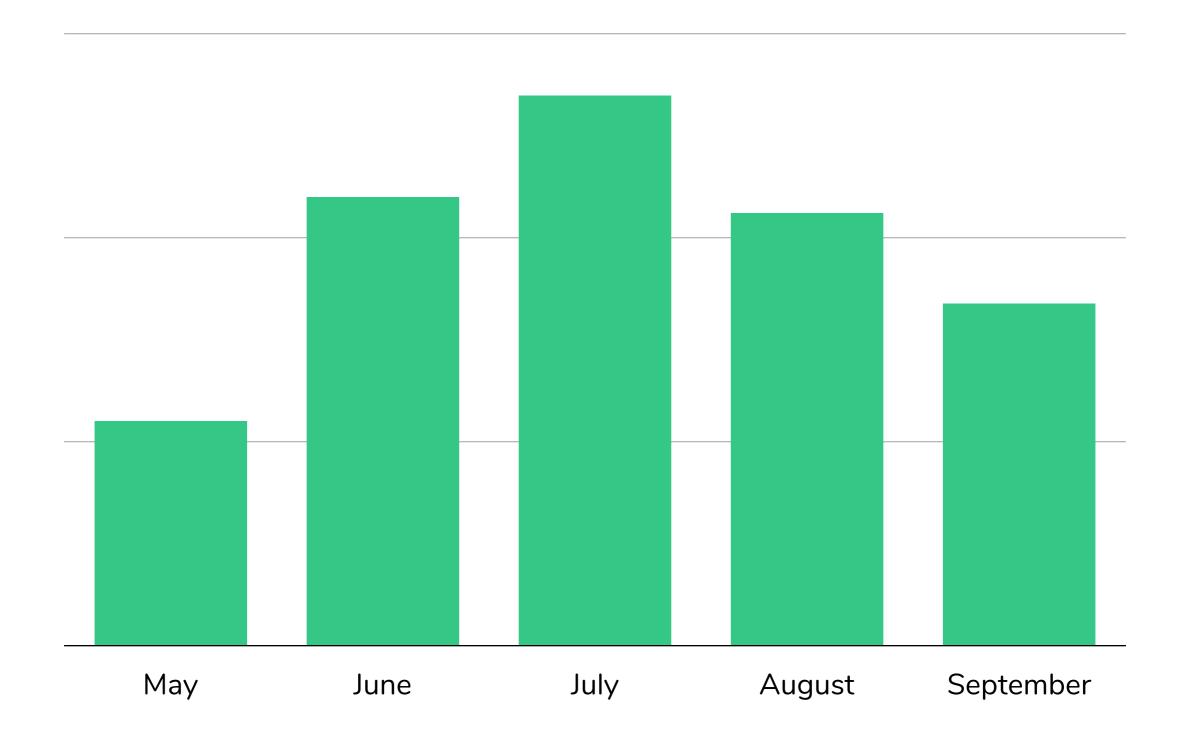


Enoptea

enoptea.fr

170k jobs/day





\$800 -> \$90



is serverless mature?

nack experiment! learn!

@matthieunapoli

github.com/mnapoli/bref