

Continuous Integration

Jak dostarczać więcej i szybciej bez branchy i GitFlow!

O nas

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#tagvenue

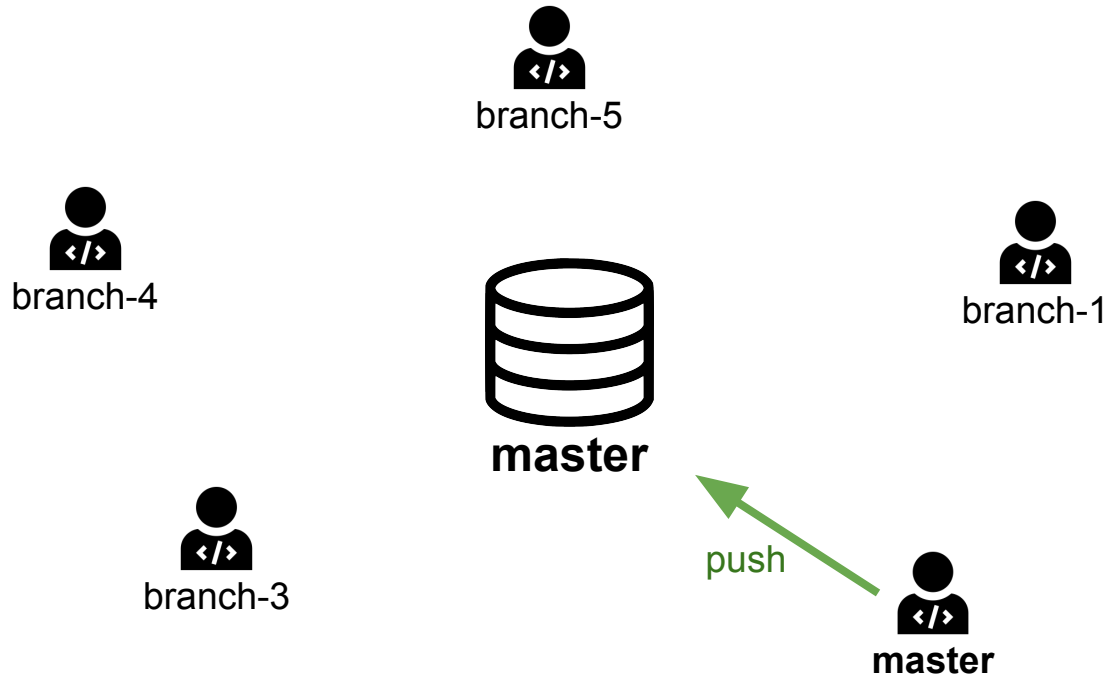
Uwaga!

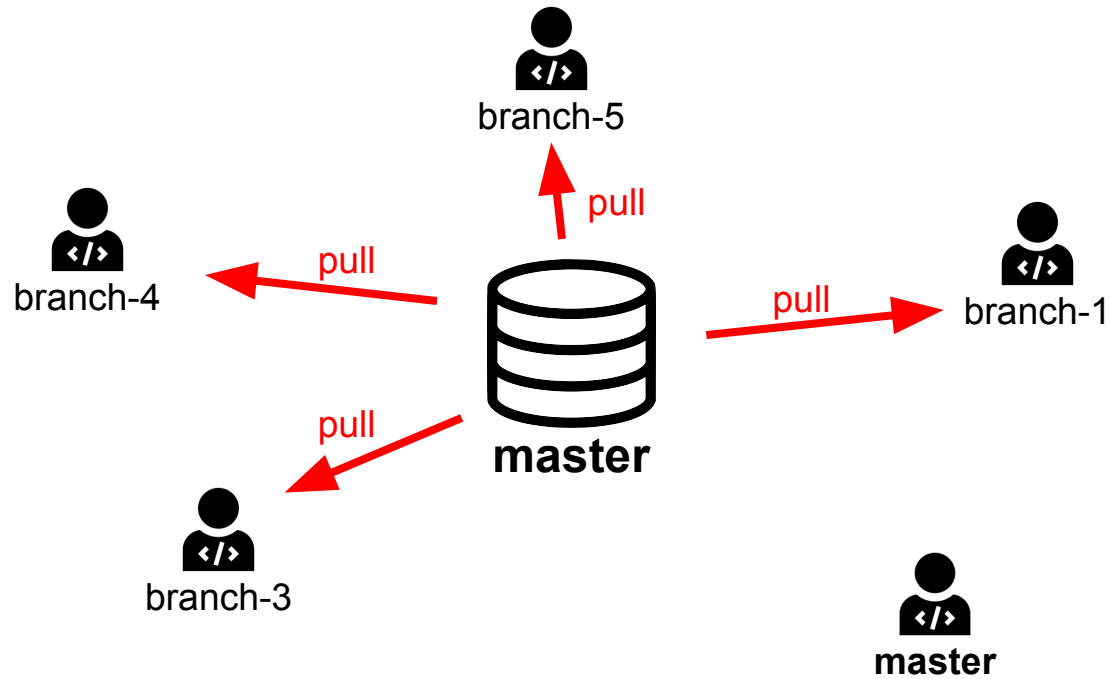
To tylko część slajdów z naszej prezentacji na meetupie PHPers Kraków #5 (2019-07-01).

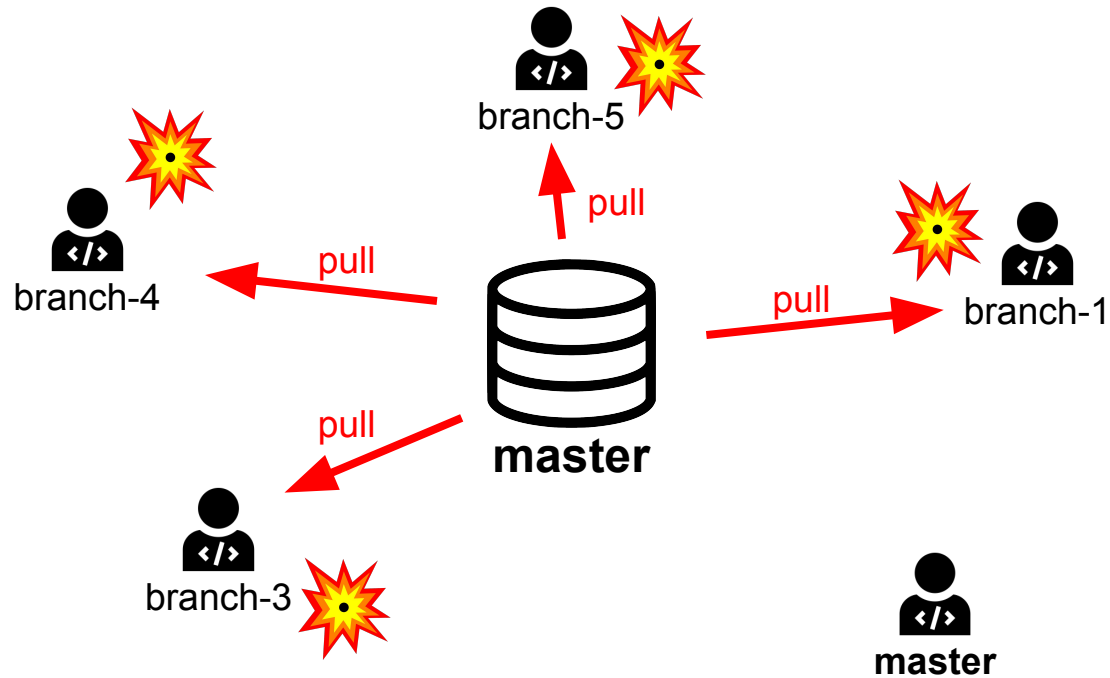
Usunęliśmy wszystkie niemerytoryczne/humorystyczne fragmenty prezentacji tj. zdjęcia z życia firmy, historię z października 2017.

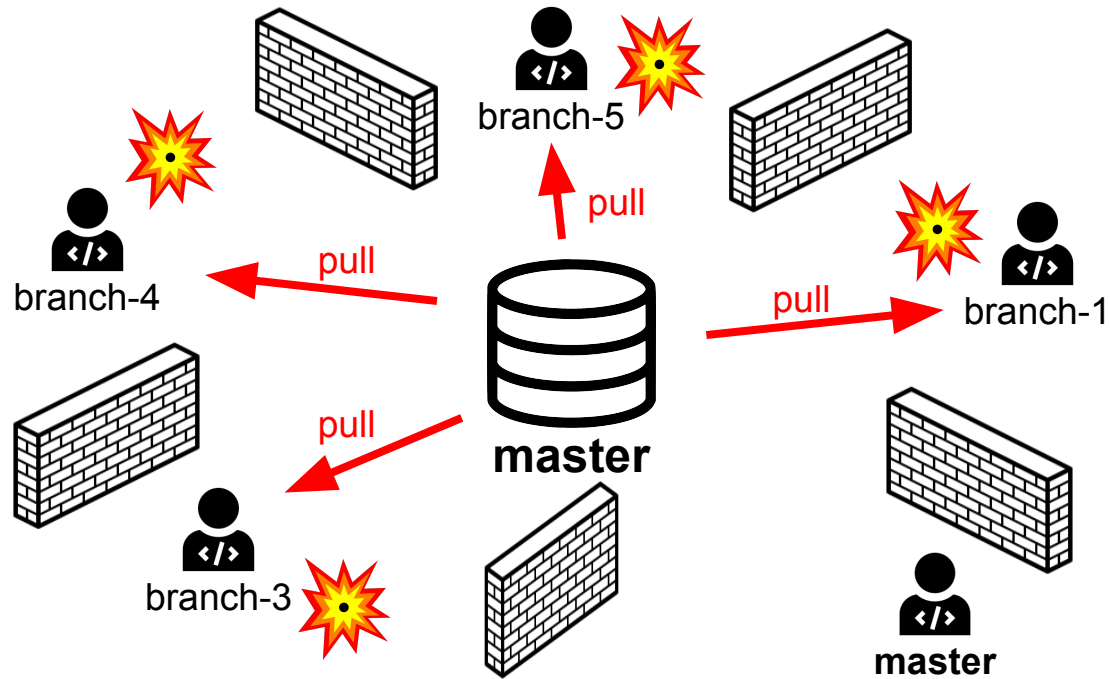
Osoby, które nie brały udziału w wydarzeniu mogą w związku z brakiem szerszego kontekstu odebrać prezentację w sposób niewłaściwy, na co nie mamy wpływu.

Continuous Integration

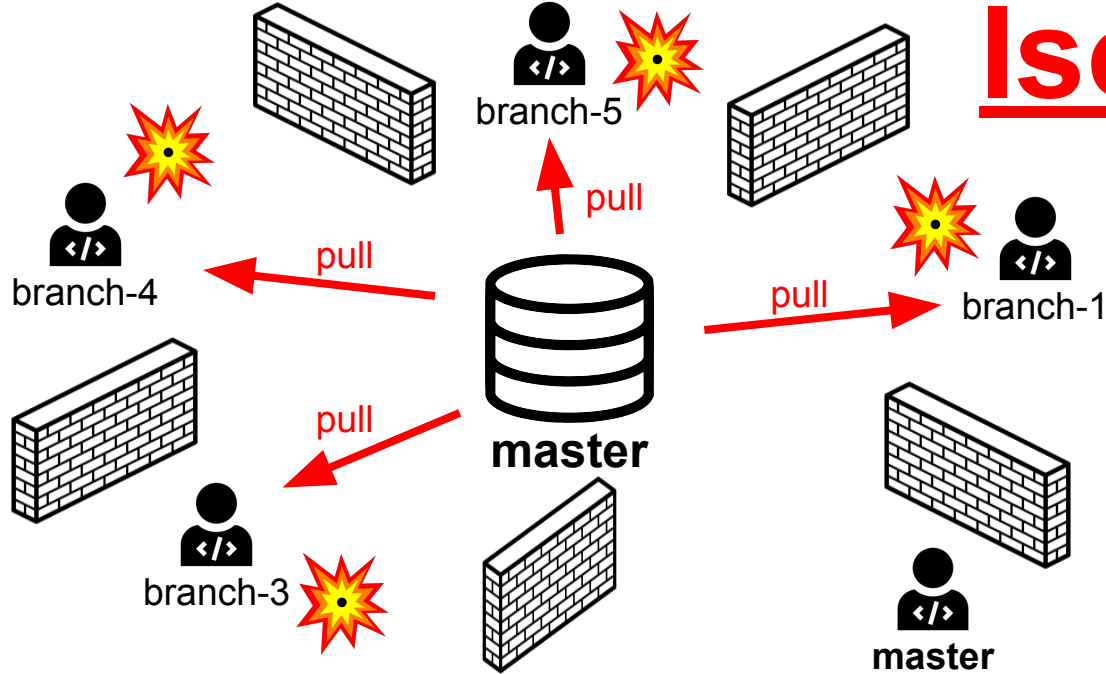




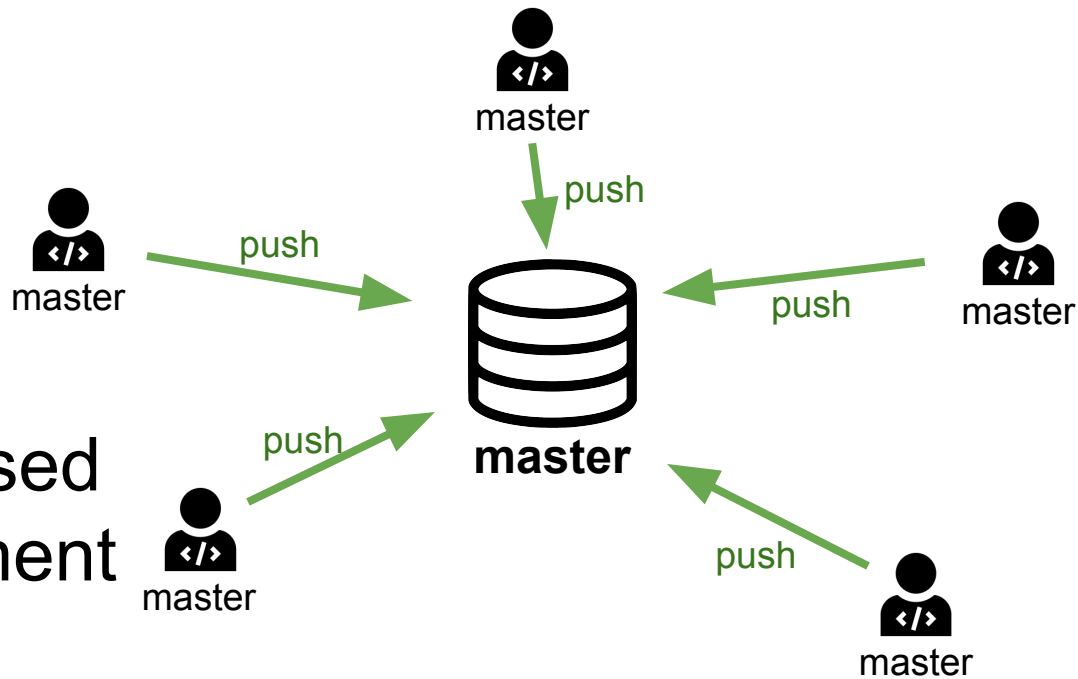




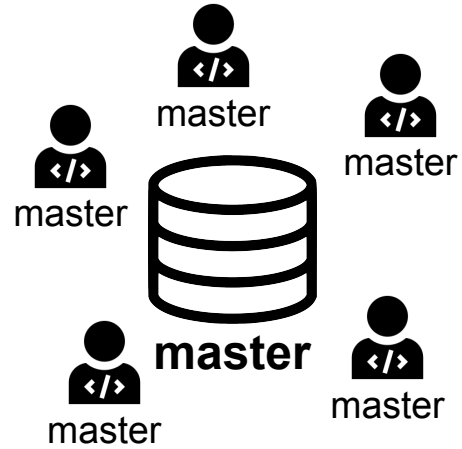
Isolation!



Trunk based development



Trunk based development



Trunk based
development

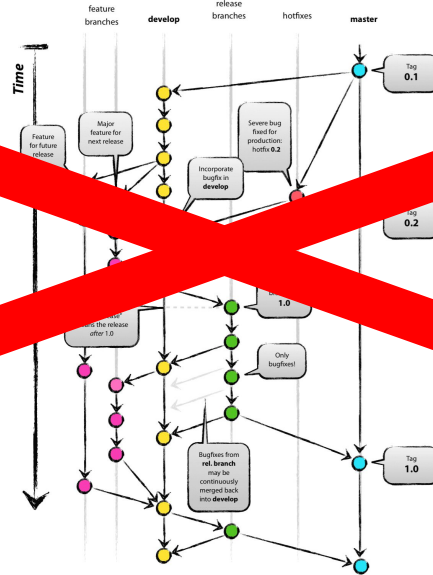
+

tests

=

CI

Git flow



One Flow

GitHub flow

Cactus flow

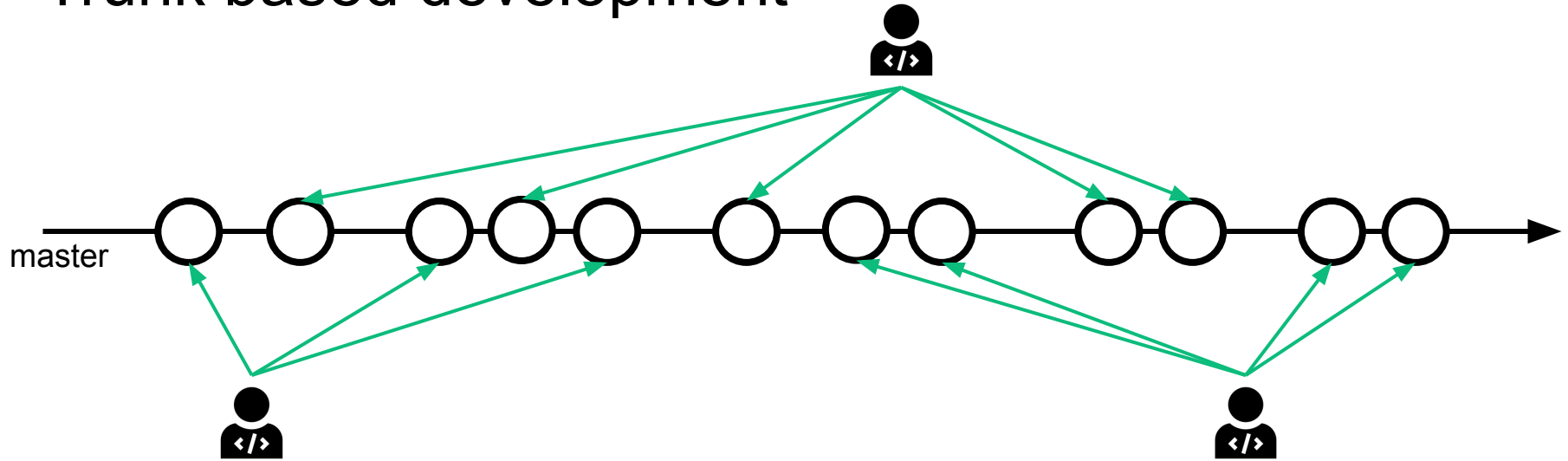
Bitbucket flow

Three flow

WDS GitFlow

Git flow

Trunk based development



Branch by Abstraction

Feature Toggles (aka Flags)

Feature Toggles (aka Flags)

```
public function searchAction()
```

```
{
```

```
    // MySQL implementation
```

```
}
```

```
public function searchAction()  
{  
    return $this->searchInMySQL();  
}
```

```
private function searchInMySQL()  
{  
    // MySQL implementation  
}
```

```
private function searchInElasticsearch()  
{  
    // TODO add new search  
}
```

```
public function searchAction()  
{  
    return $this->searchInMySQL();  
}
```

```
public function searchAction()
```

```
{
```

```
    $useElasticsearch = false;
```

git push

```
    if ($useElasticsearch === true) {
```

```
        return $this->searchInElasticsearch();
```

```
    } else {
```

```
        return $this->searchInMySQL();
```

```
    }
```

```
}
```

```
private function searchInElasticsearch()  
{  
    // TODO add new search  
}
```

```
private function searchInElasticsearch()  
{  
    // (...) work in progress  
}
```

git push


```
private function searchInElasticsearch()
```

```
{
```

```
    // Elasticsearch DONE
```

```
}
```

```
git push
```

```
public function searchAction()
```

```
{
```

```
    $useElasticsearch = true;
```

git push

```
    if ($useElasticsearch === true) {  
        return $this->searchInElasticsearch();
```

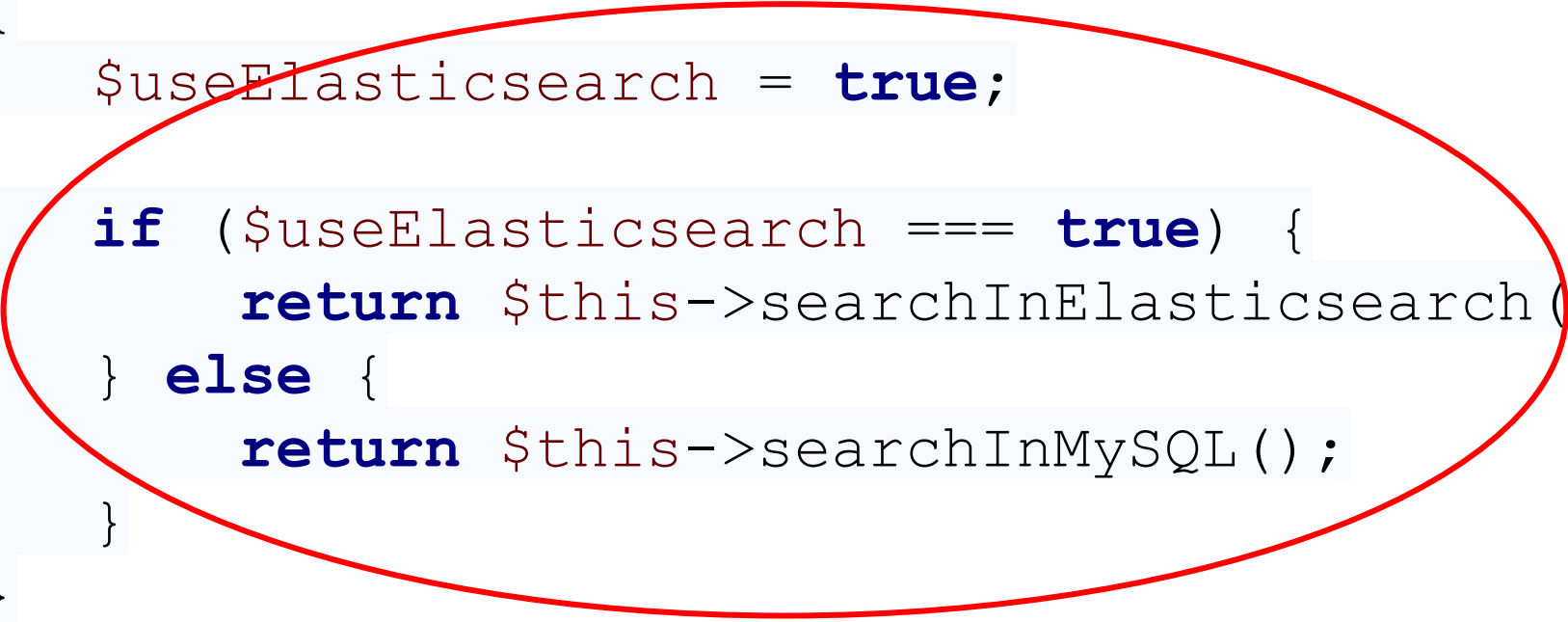
```
    } else {
```

```
        return $this->searchInMySQL();
```

```
    }
```

```
}
```

```
public function searchAction()  
{  
    $useElasticsearch = true;  
  
    if ($useElasticsearch === true) {  
        return $this->searchInElasticsearch();  
    } else {  
        return $this->searchInMySQL();  
    }  
}
```

A red oval is drawn around the conditional logic block of the PHP function. It encompasses the lines: `$useElasticsearch = true;`, `if ($useElasticsearch === true) {`, `return $this->searchInElasticsearch();`, `} else {`, `return $this->searchInMySQL();`, and `}`. The rest of the function, including the opening and closing curly braces, is outside the oval.

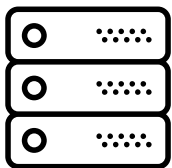
```
public function searchAction()
```

```
{
```

```
// Elasticsearch implementation
```

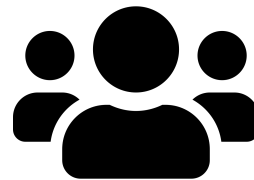
```
}
```

```
git push
```



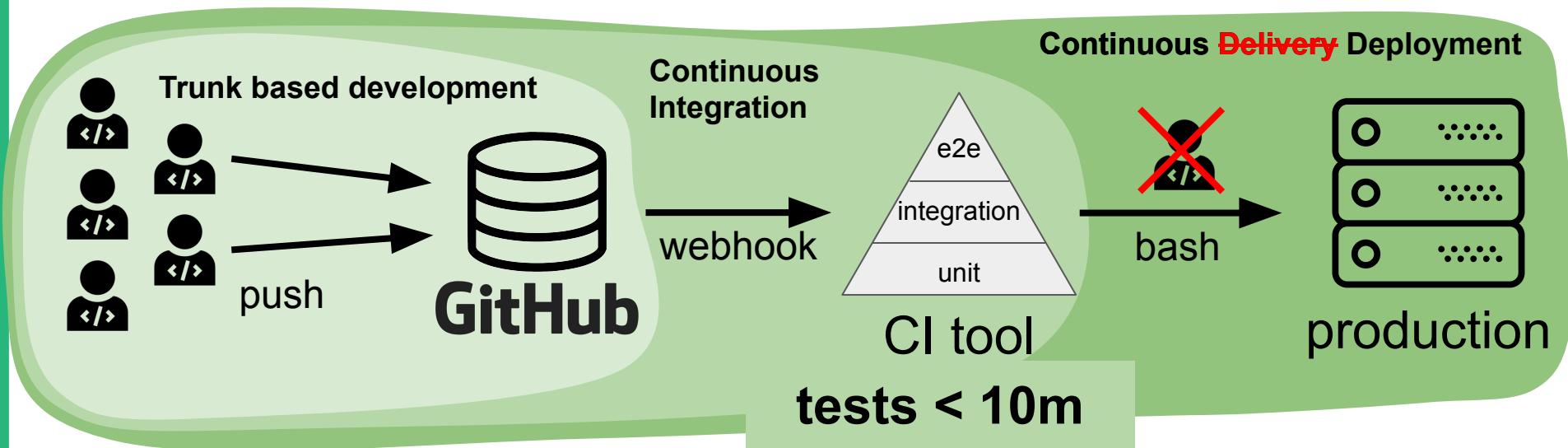
deployment

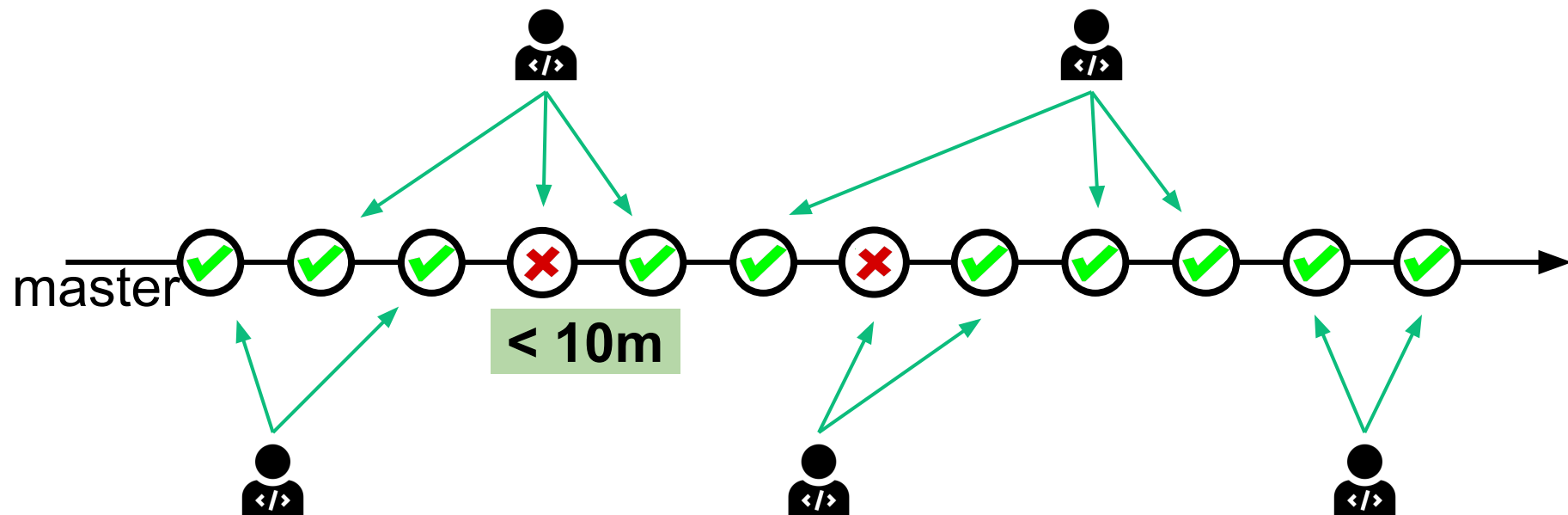
!=



release

Buzzwords map





You need this too:

small batches

basic monitoring

Feature toggles i pochodne



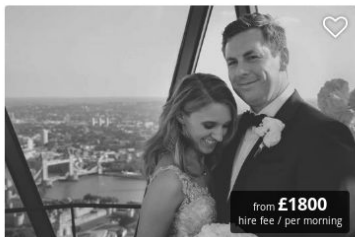
Event type

Date

Price range

Filters

383 Wedding venues in this area

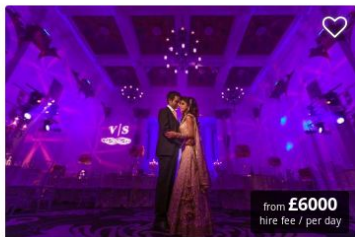
**Breath-Taking Wedding**

Searcys at The Gherkin

Aldgate Station

h 140 i 260

★★★★★ (23)

**Luxury Wedding**

8 Northumberland Avenue

Charing Cross Station

h 500 i 700

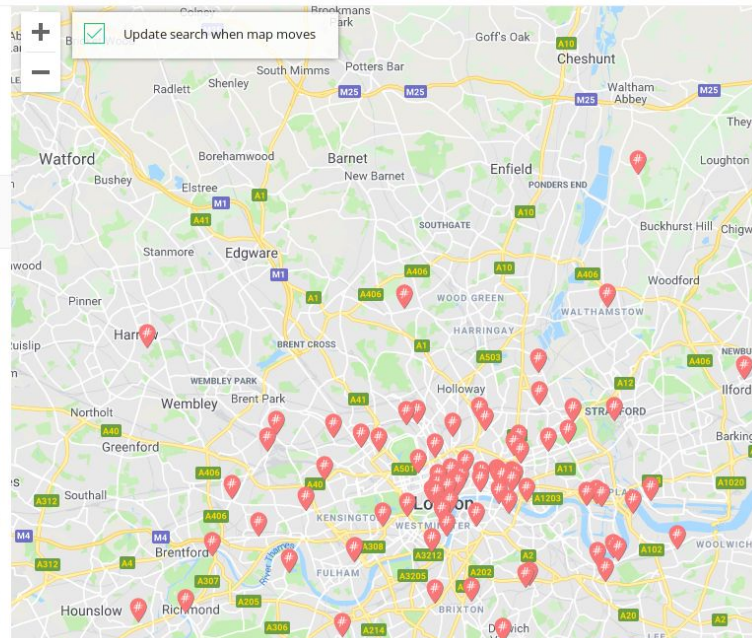
★★★★★ (6)

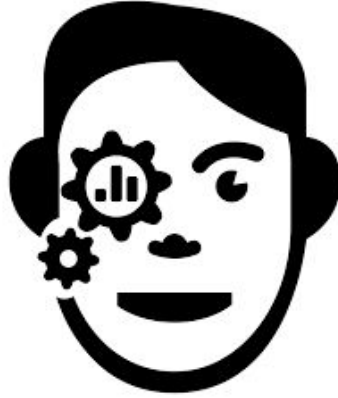
**The Dock**

Cutty Sark

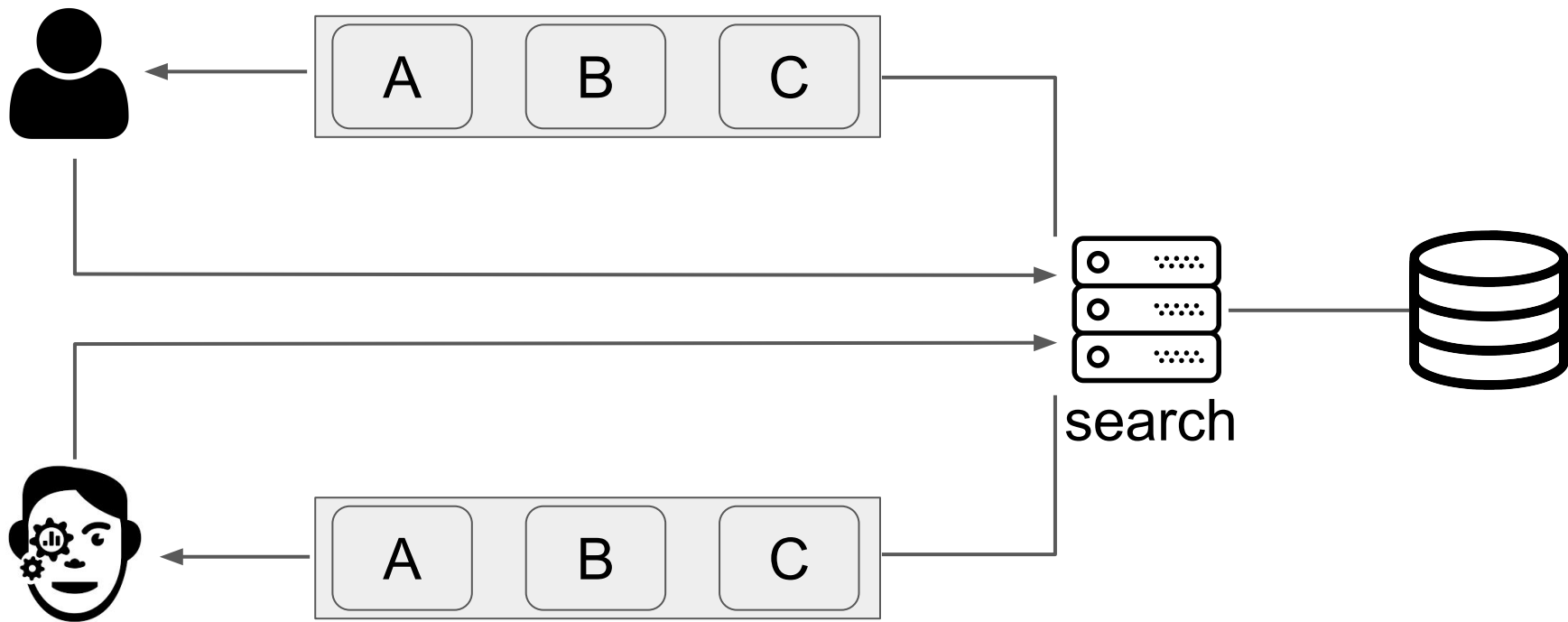
Cutty Sark Station

h 300 i 450

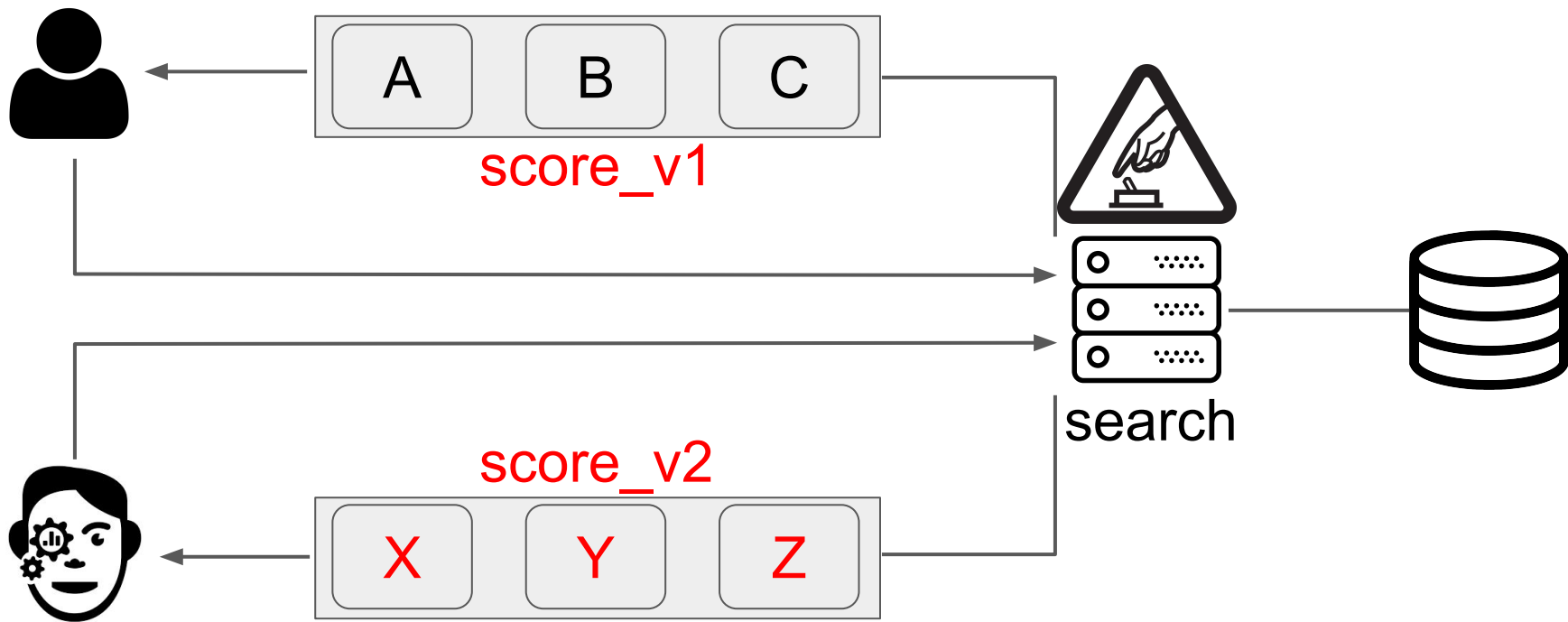


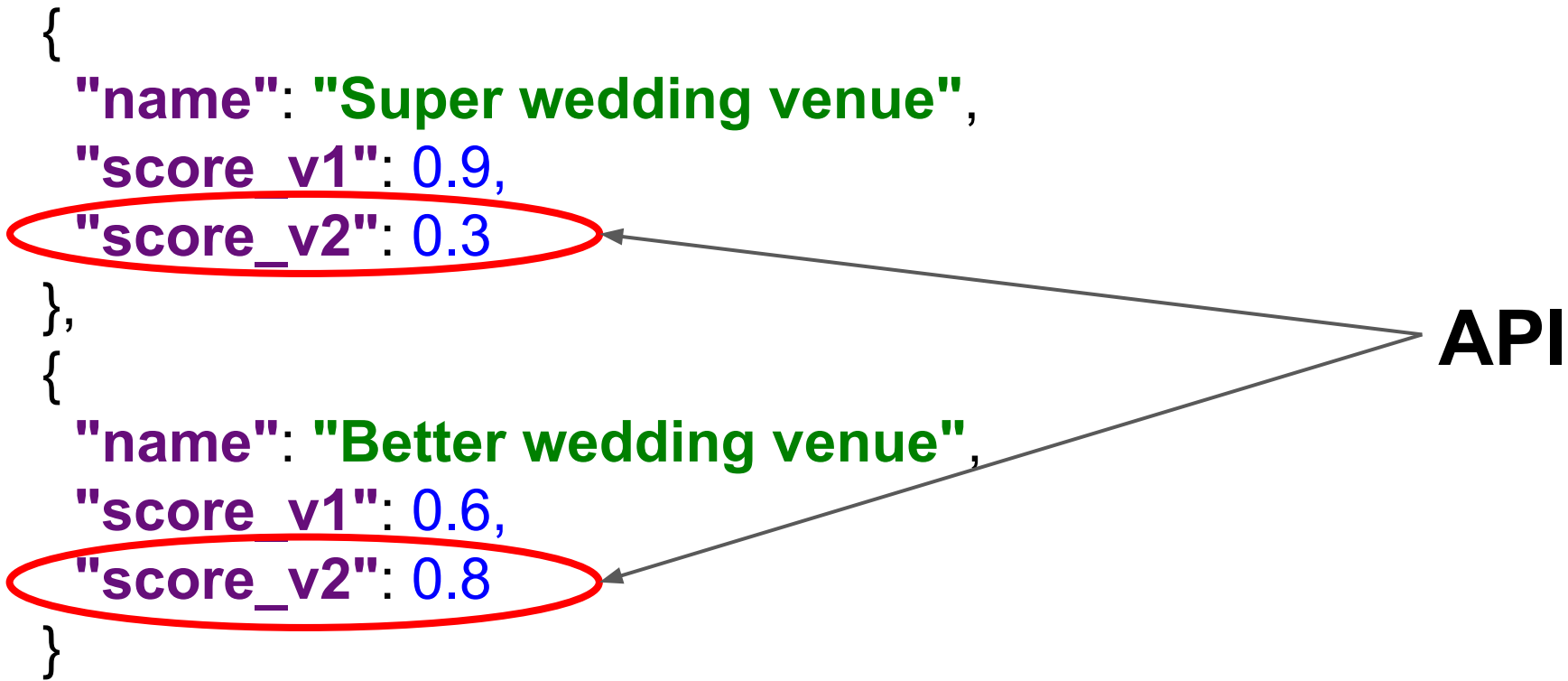


Data scientist



```
{  
  "name": "Super wedding venue",  
  "score_v1": 0.9  
},  
{  
  "name": "Better wedding venue",  
  "score_v1": 0.6  
}
```





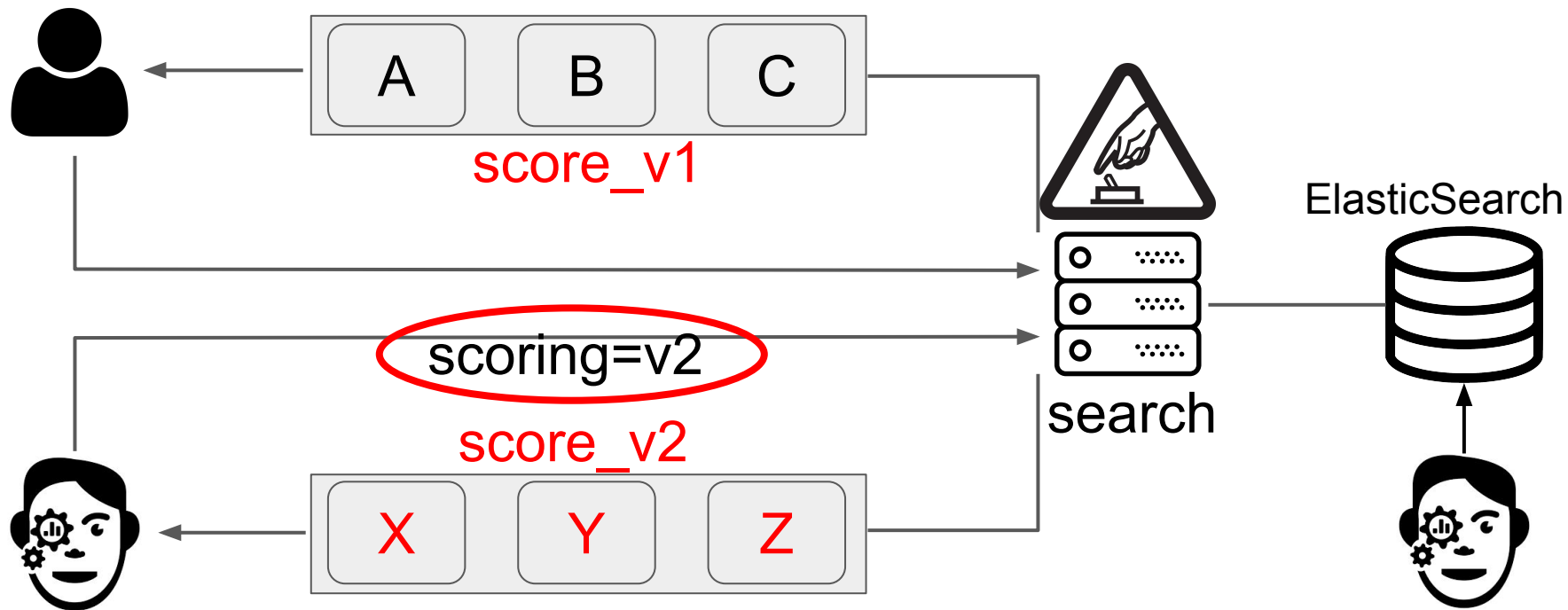
```
public static function createQuery(Request $request)
{
    return [
        // ....
        'sort' => 'score_v1',
        // ....
    ];
}
```

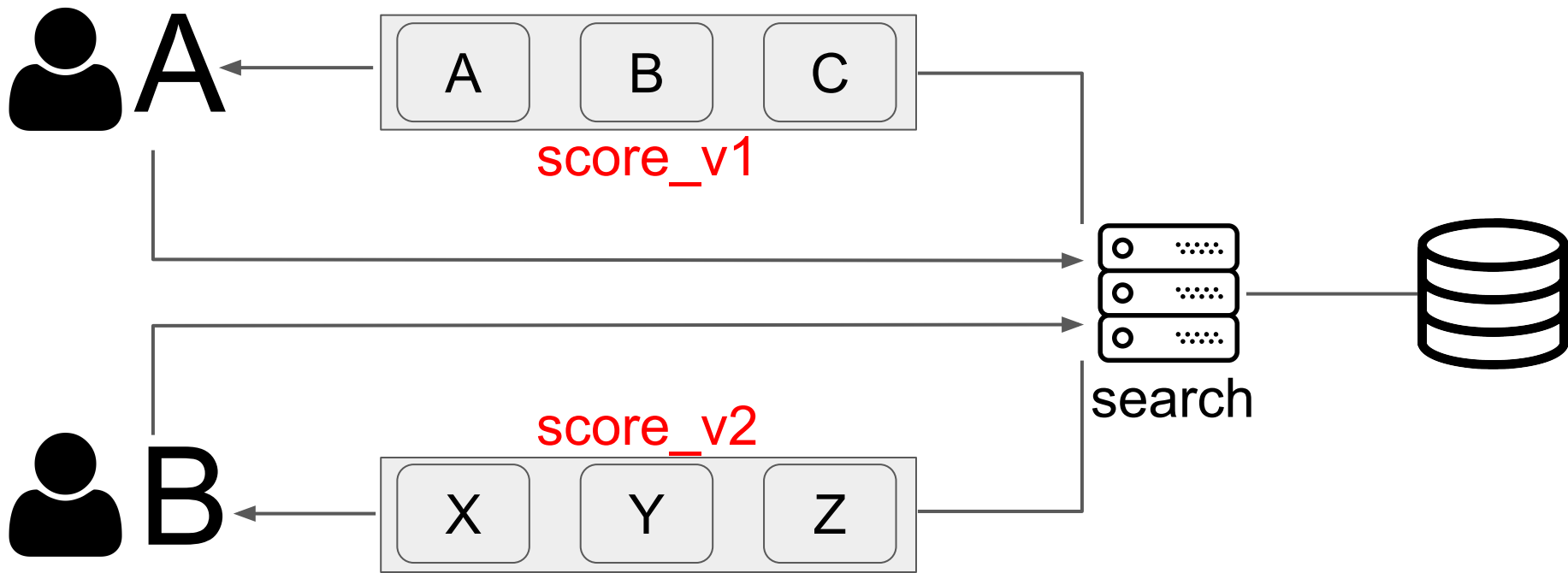


```
public static function createQuery(Request $request)
{
    return [
        // ....
        'sort' => self::getSortingField($request),
        // ....
    ];
}
```

```
private static function getSortingField(Request $request)
{
    if ($request->header('scoring') === 'v2') {
        return 'score_v2';
    }

    return 'score_v1';
}
```



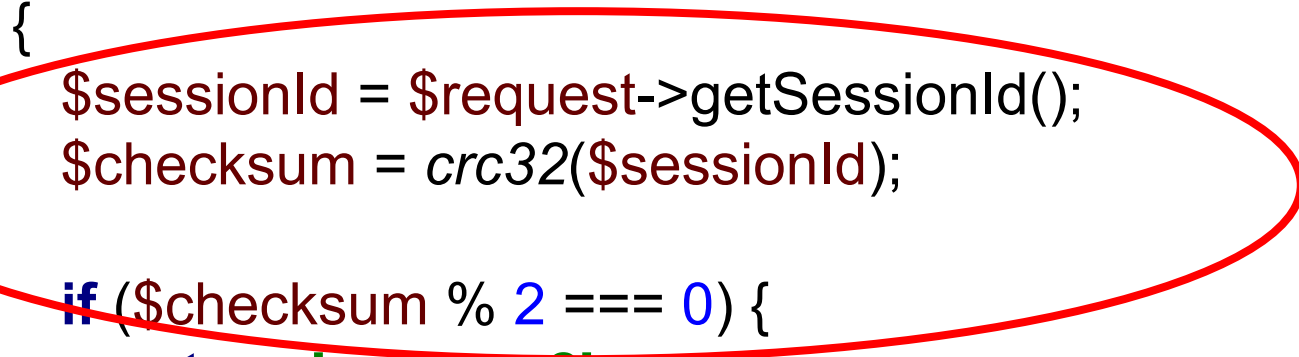


```
private static function getSortingField(Request $request)
{
    if ($request->header('scoring') === 'v2') {
        return 'score_v2';
    }

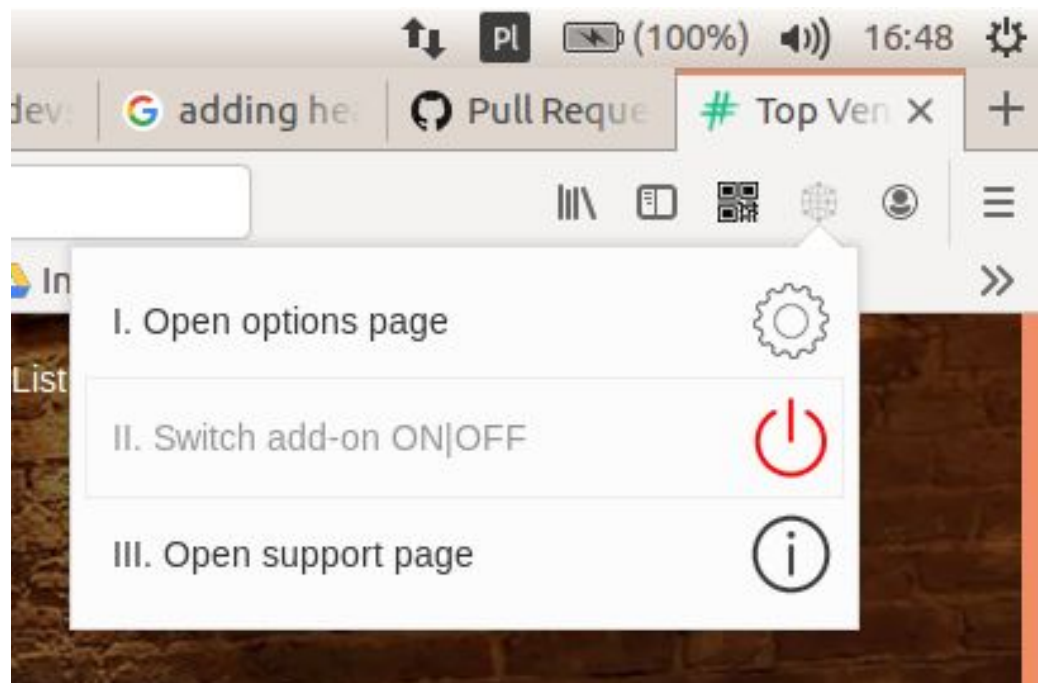
    return 'score_v1';
}
```

```
private static function getSortingField(Request $request)
{
    $sessionId = $request->getSessionId();
    $checksum = crc32($sessionId);

    if ($checksum % 2 === 0) {
        return 'score_v2';
    }
    return 'score_v1';
}
```

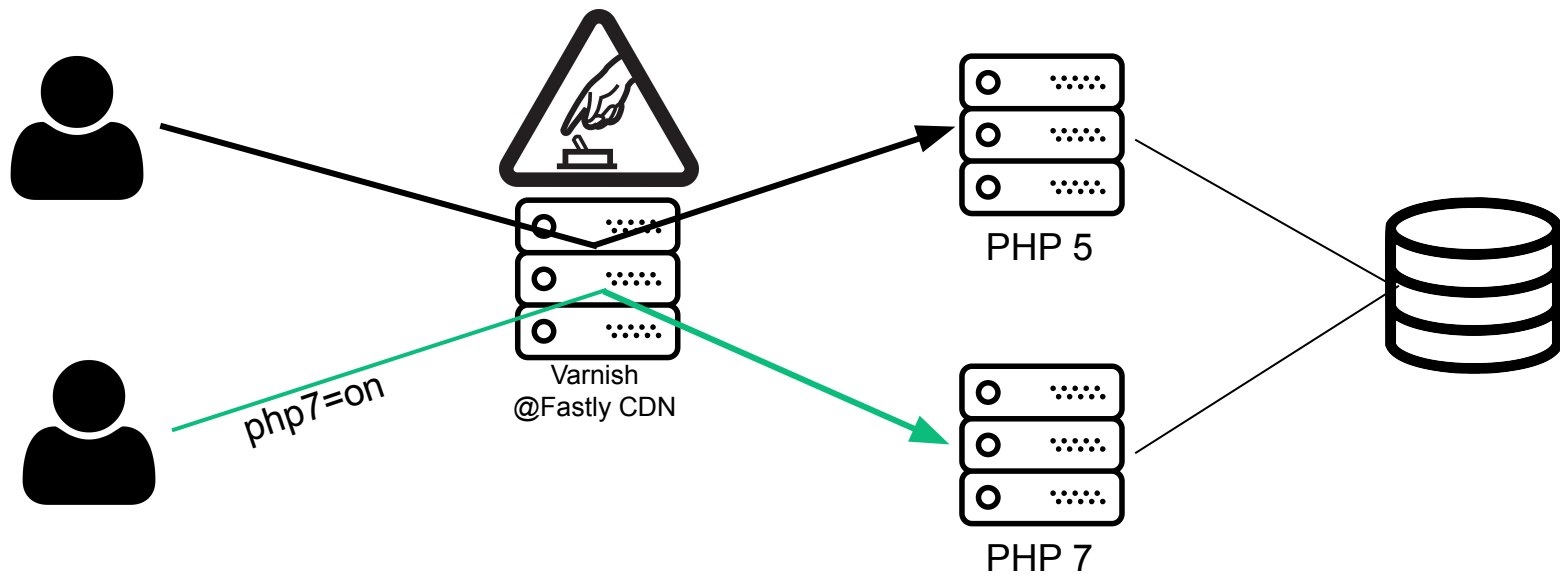


Czy to jest wygodne?

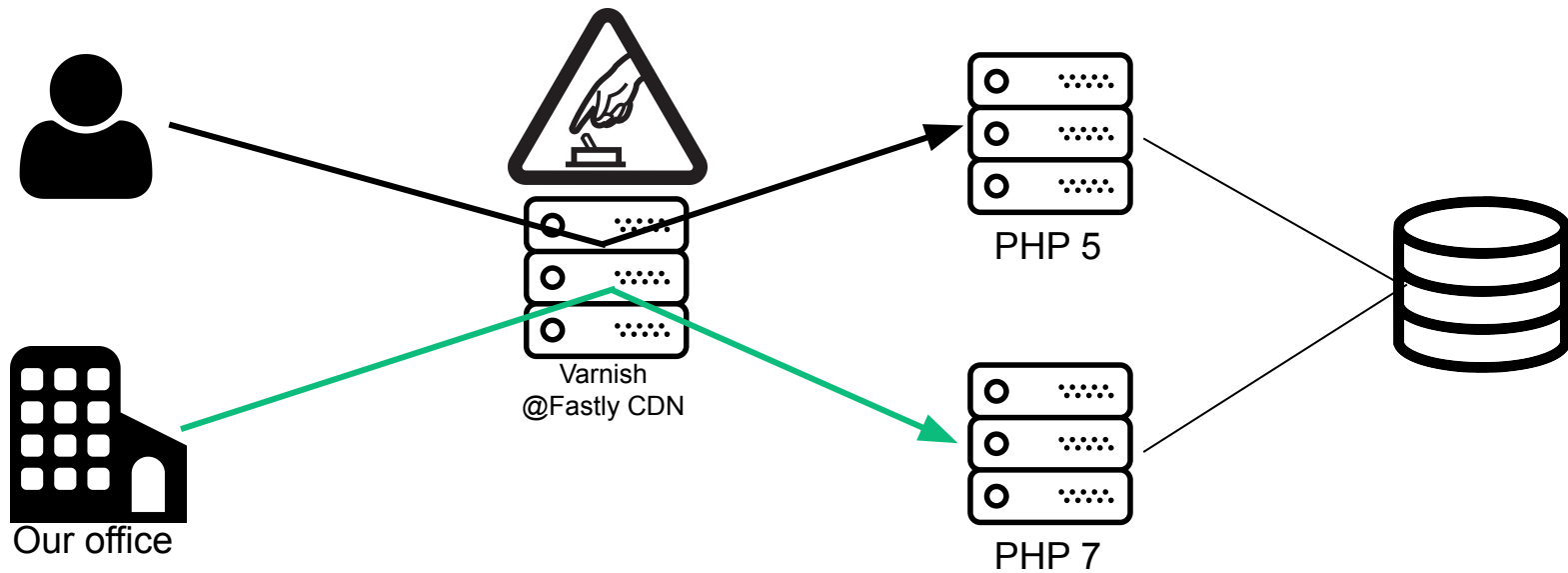




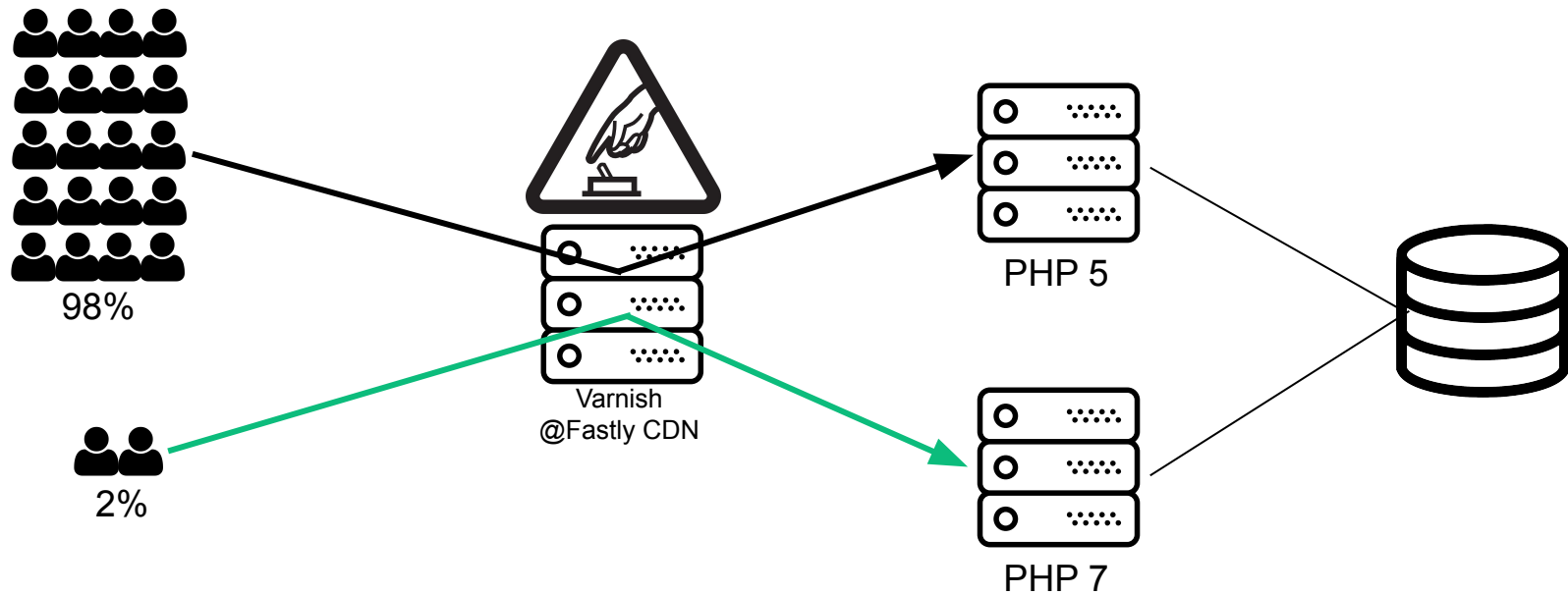
5 → 7



```
if (req.http.php7 == "on") {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```



```
if (client.ip == "1.2.3.4") {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```

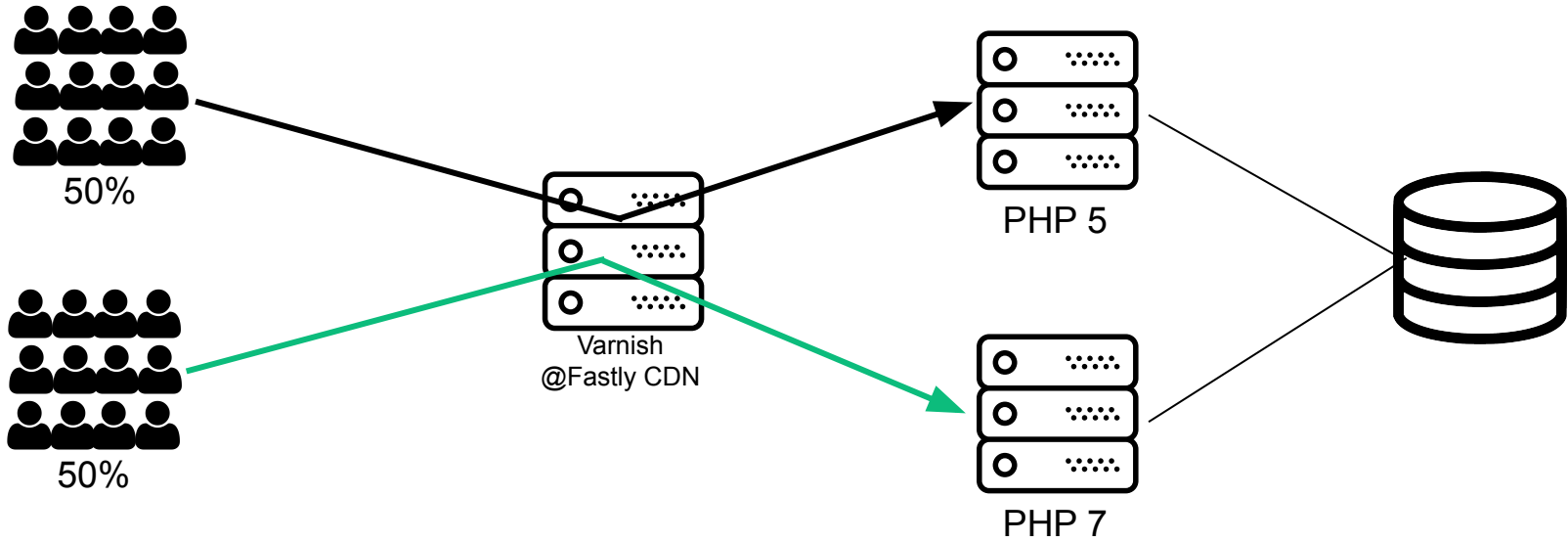


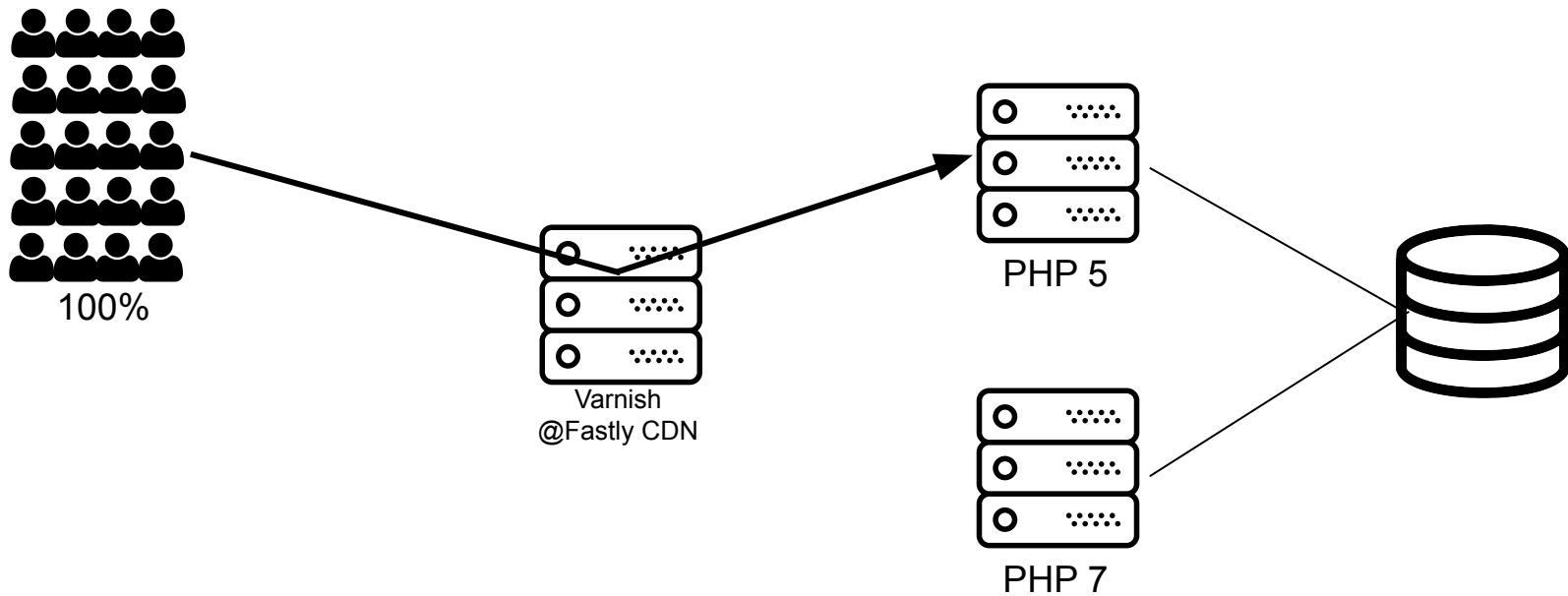
```
if (randomint(1, 100) <= 2) {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```

```
if (randomint(1, 100) <= 50) {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```



```
if (randomint(1, 100) <= 100) {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```





```
if (randomint(1, 100) <= 0) {  
    set req.http.x-serve-from = "php7";  
} else {  
    set req.http.x-serve-from = "php5";  
}
```

Inne przykłady FT



<https://www.tagvenue.com/?toggle-australia>



The Hire Team

..

Your Personal Event Manager
from 78 Bishopsgate (St. ... 

The Hire Team needs these details to
respond:

Event date



01/01/2099



People



25



From

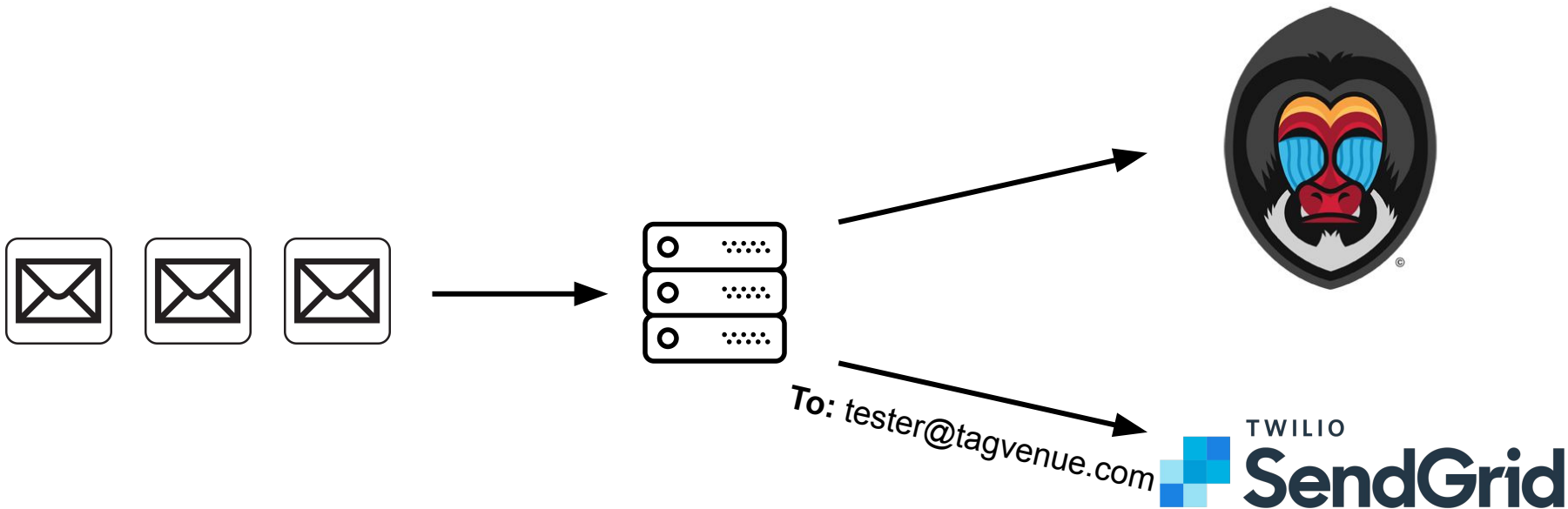


To



☐ I'm flexible on dates and time

Enquire now





Filename: krzeslo.jpg

Podsumowanie

- CI = praca na master + testy
- GitFlow != CI
- Feature toggles
- Monitoring
- Small batches
- Dyscyplina

Zalety

Mniej funkcjonalności w pojedynczym release ...

To mniej powodów do opóźnień!

Bajecznie prosty rollback w standardzie

To mniej stresu przy release!

“To już jest gotowe, wystarczy domergować do mastera”

To mniej niespodzianek!

Więcej czasu na development

To krótszy czas dostarczania!

Szybki feedback loop (od release do buga)

Prostsze debugowanie

Biznes to lubi!

Warto?

#tagvenue

2019

377

merges monthly

4.18

per dev daily

132

Deployments monthly

1.47

per dev daily

Dzięki!

Must have online content

Blog posts or articles:

<https://martinfowler.com/bliki/ContinuousDelivery.html>

<https://martinfowler.com/delivery.html>

<https://martinfowler.com/articles/continuousIntegration.html>

<https://martinfowler.com/bliki/FeatureToggle.html>

<https://martinfowler.com/articles/feature-toggles.html>

<https://martinfowler.com/bliki/BranchByAbstraction.html>

<https://twitter.com/martinfowler/status/1086642940653522944>

We recommend to get familiar with Martin Fowler and all his references.

<http://trunkbaseddevelopment.com/> - we recommend the whole site

Videos:

<https://www.youtube.com/watch?v=po712VIZZ7M>

<https://www.youtube.com/watch?v=lqRQYEHAtpk>

https://www.youtube.com/watch?v=aoMfbgF2D_4

<https://www.youtube.com/watch?v=wnd-eyPoMo>

Books

(to read to get a job at Tagvenue :-)

