



Hi!

Przemysław Krzywania

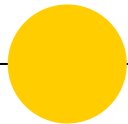
EBKF

krzywania.online

Turbocharging the monolith



You can't turn a **shit** to whip.

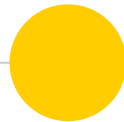


Why are monoliths bad?

Are monoliths bad?



A tragedy in three acts





A tragedy in three acts

1. Green field: Symfony 2.3, jQuery, Twig, Doctrine, stock layout.

There is ~~an app~~ a bundle for that.

Steve Jobs, January 2010



“

89 bundles

~200ms

Average Symfony
boot time



A tragedy in three acts

1. Green field: Symfony 2.3, jQuery, Twig, Doctrine, stock layout.
2. We got a bundle for that.

12 seconds

Average page load time

Let's do SPA!



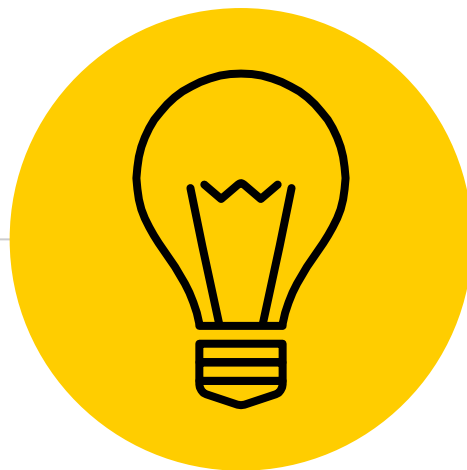


Tragedia w 3 aktach

1. Green field: Symfony 2.3, jQuery, Twig, Doctrine, stock layout.
2. We got a bundle for that.
3. Let's do SPA!

How to speed it up without
rewriting?





Do not load Symfony

Run the Symfony application in a process that does not die.



Two solutions?





And?



PHP Process Manager



According to the authors:



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1. Acceleration up to x15 times compared to PHP-FPM.



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1. Acceleration up to x15 times compared to PHP-FPM.
2. Integrated load balancer.
3. Hot code reload.
4. **Support for HttpKernel (Symfony, Laravel, Drupal)**

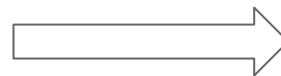


How PPM works





What is underneath



Symfony



Deployment

```
server {  
    location / {  
        try_files $uri @ppm;  
    }  
    location @ppm {  
        proxy_set_header Host $http_host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For  
$proxy_add_x_forwarded_for;  
        proxy_set_header X-Forwarded-Proto $scheme;  
        proxy_pass http://127.0.0.1:9000;  
    }  
}
```

```
/tools/vendor/bin/ppm  
start  
--config=/tools/ppm.j  
son --app-env=prod  
--debug=0 /var/www/
```



Deployment **out of the box** solution
FULL SUCCESS



sevent \$event

KernelTerminate()

```
->entityManager->getFilters(  
entityManager->getFilters()->d
```

There were some problems, **but it was not bad.**

Doctrine keep in cache filters with parameters from other requests.

7,7 seconds

Average page loading time

41%

Acceleration of average page load time



3,3 seconds

Average page loading time



239%

That's how much we managed to speed up on average...



35 ms

The fastest request

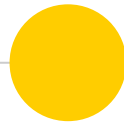


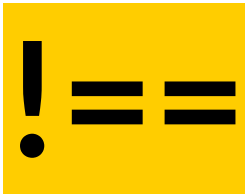
x12

And that is what I call turbocharging!



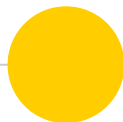
But?



CLOUD  CLOUD

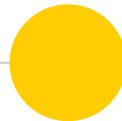
Migration to Azure

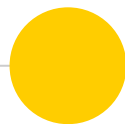
August-September 2019



PHP-FPM PERFORMANCE

-17%







Thank you!

Any questions?