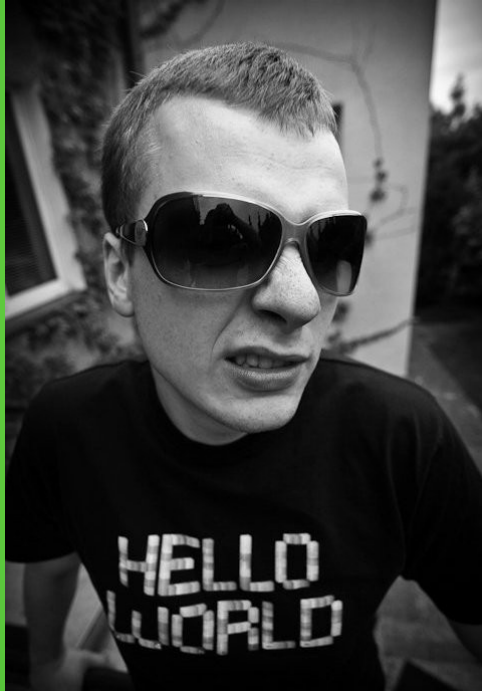


# PHP Startup Prototypes

By @emgietzet

# Who am I?



- In PHP since 2003
- In Symfony since 1.2.14
- Master @ `wmid.amu.edu.pl`
- Tech Lead @ **RedExperts**
- self-employed
- Blogger & Geek

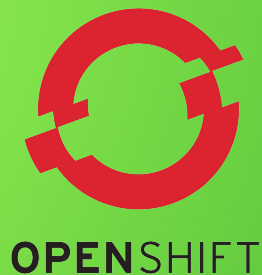
# new Agenda( );

```
$presentation[0] = 'Who am I?';  
$presentation[1] = 'I got an idea but have no money!';  
$presentation[2] = 'PAAS';  
$presentation[3] = 'PAAS - Providers';  
$presentation[4] = 'Costs?';  
$presentation[5] = 'Application';  
$presentation[6] = 'Silex';  
$presentation[7] = 'Laravel4';  
$presentation[8] = 'Our cloud is under siege!';  
$presentation[9] = 'Charts and other crap';  
$presentation[10] = 'Q&A';  
$presentation[11] = 'Tank You!';
```

# PaaS == Platform As A Service

- Focused on application
- No additional infrastructure required
- Deploy and Forget
- Load Balancer? Who needs the load balancer?
- No admin support needed anymore! Sorry guys.

# PHP friendly PaaS - Providers



**BRACE YOURSEVLES**

**GERMAN SLIDES ARE  
COMMING**



# appfog



appfog

- Evolves from PHPFog
- After Deployment Scripts
- Easy to deploy
- Additional Services Config available via `get_env()`;
- Gem application to deploy your app
- 2GB of RAM for your apps for free!
- Up to 10 Services for your apps free!
- Time to time throws 500 on appfog panel.
- Cannot write to disk of instance for ex. file uploads or file cache.
- No auto scaling



# Engine Yard - Orchestra



- Deploys straight from repository(Git and SVN)
- Production database need to be hosted on AWS - \$\$\$
- Only orchestra sub-domain
- Only free add ons at free plan
- 1 concurrent connection – our siege tests are ruined!
- No auto scaling

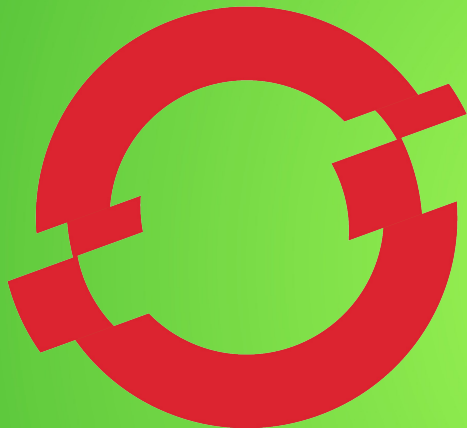


# heroku



- Cloud level: “Asians”
- Based on nginx
- Dev DB up to 10k rows is free
- Production DB starts from \$9 / mo.
- Only 1 instance is free
- Needs special a “buildpack”

# OPENSIFT




OPENSIFT

- RedHat based must be awesome!
- Build on Zend Server
- 3 small “gears” 512 MB RAM for free!
- Each “gear” can have MySQL, MongoDB, PostgreSQL, phpMyAdmin etc.
- Free application can have auto-scale feature and fill all the 3 gears available on the traffic peak.

Costs?!



# PAAS – Providers Free Plans

Feature	 appfog	Orchestra	Heroku	OpenShift
RAM	2GB	?	?	512MB / inst.
Storage	1 GB / inst.	2\$ / mo.	Dev s3	1GB / inst.
MySQL	Up to 10	Shared DB	10k rows	1 / instance
MongoDB		?\$ / mo.	496 MB	1 / instance
Redis		X	100 MB	X
Memcached	X	X	1x 25 MB	X
Location	US,Europe,Asia	US West	Cannot select	Cannot select
Instances	Up to 16	2	1	Salable up to 3
Deploy	by gem af	from git	by toolbelt	by gem rhc or by jenkins
My Grade:	4+	2	3	4

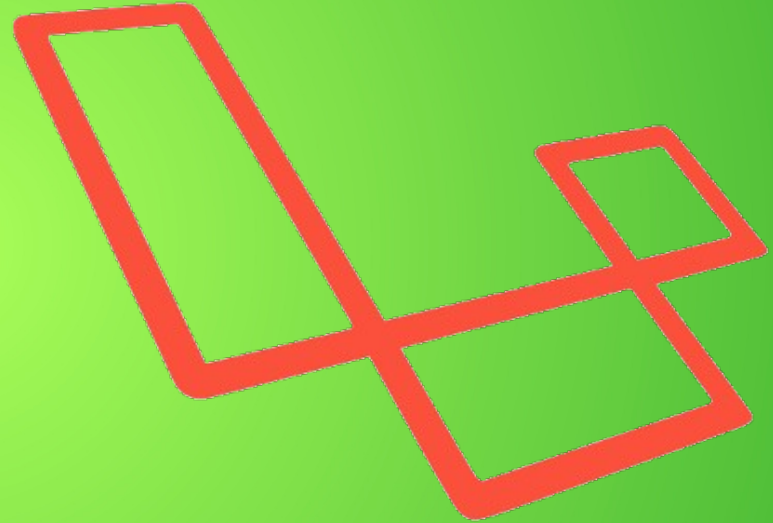
# Application

- Routing and ORM based.
- Cloud friendly – easy to scale horizontally,
- Database filled with 10k of random records
- One controller displays the data from the DB
- Composer based installation ( I wish be there )
- Big frameworks aren't supported (mostly) ;(
- So let's go with micro-frameworks!

# Cloud friendly Application? WAT?

- Can use Master/Slave DB Connection.
- Gives ability to store session in DB/Memcache/Redis because sticky session sucks hard by keeping user only at single instance/node while session is valid.
- Can use external storage for uploads (ex. Amazon S3 bucket)
-

# Micro-frameworks



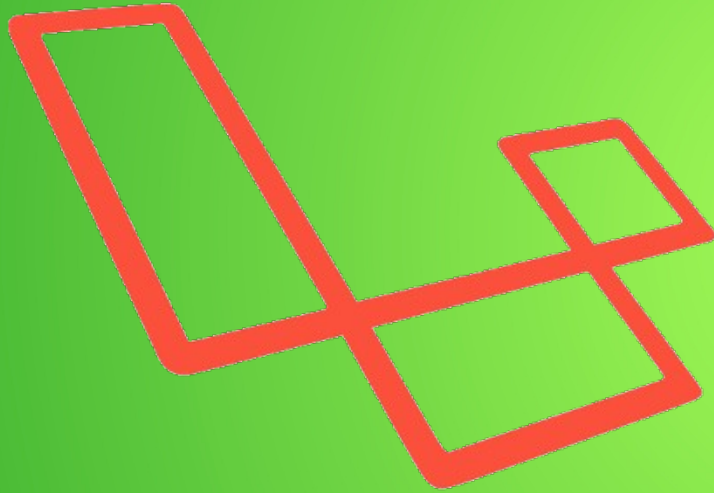


# Silex



- Build on symfony2 components!
- Uses TWIG
- Has lot's of extensions
- Easy to use for symfony2 developers
- Cloud friendly!

# Laravel 4



- Also uses symfony2 components,
- Well documented,
- Light weight,
- Popular
- DBAL – not so great

# Let's build the APPs!



- One controller with one action
- Display the data
- Add a memcached if available
- Create a fixtures or dump to fill the database!
- Deploy the apps in to the cloud!

# But before we deploy them...



- We need to create our apps in the PAAS Cloud!
- Configure the build,
- Add a resources(RAM, additional services),
- Load Balancing? Forget. PAAS has LB build in!

Our Cloud is under siege!



# Siege Config

- **15 concurrent users**
- **1 minute of siege**

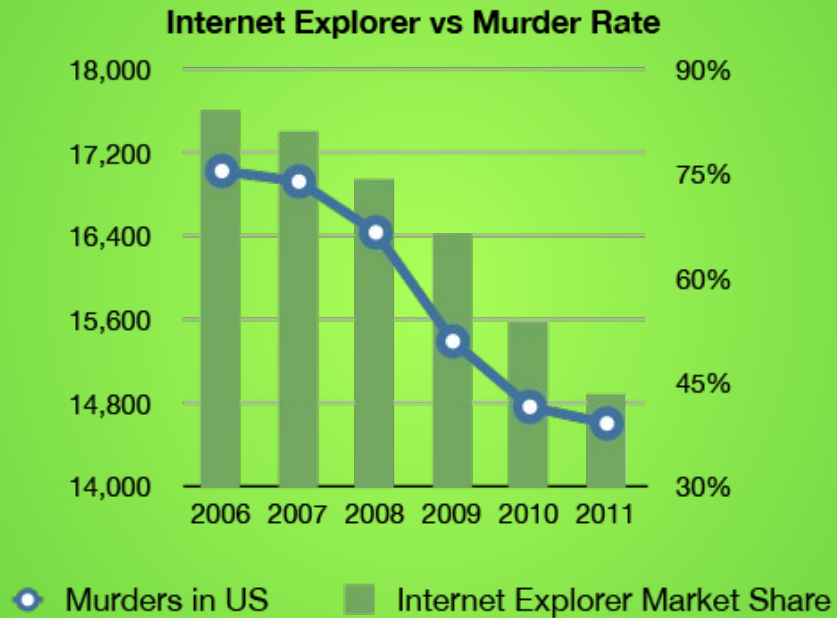


# Siege Results

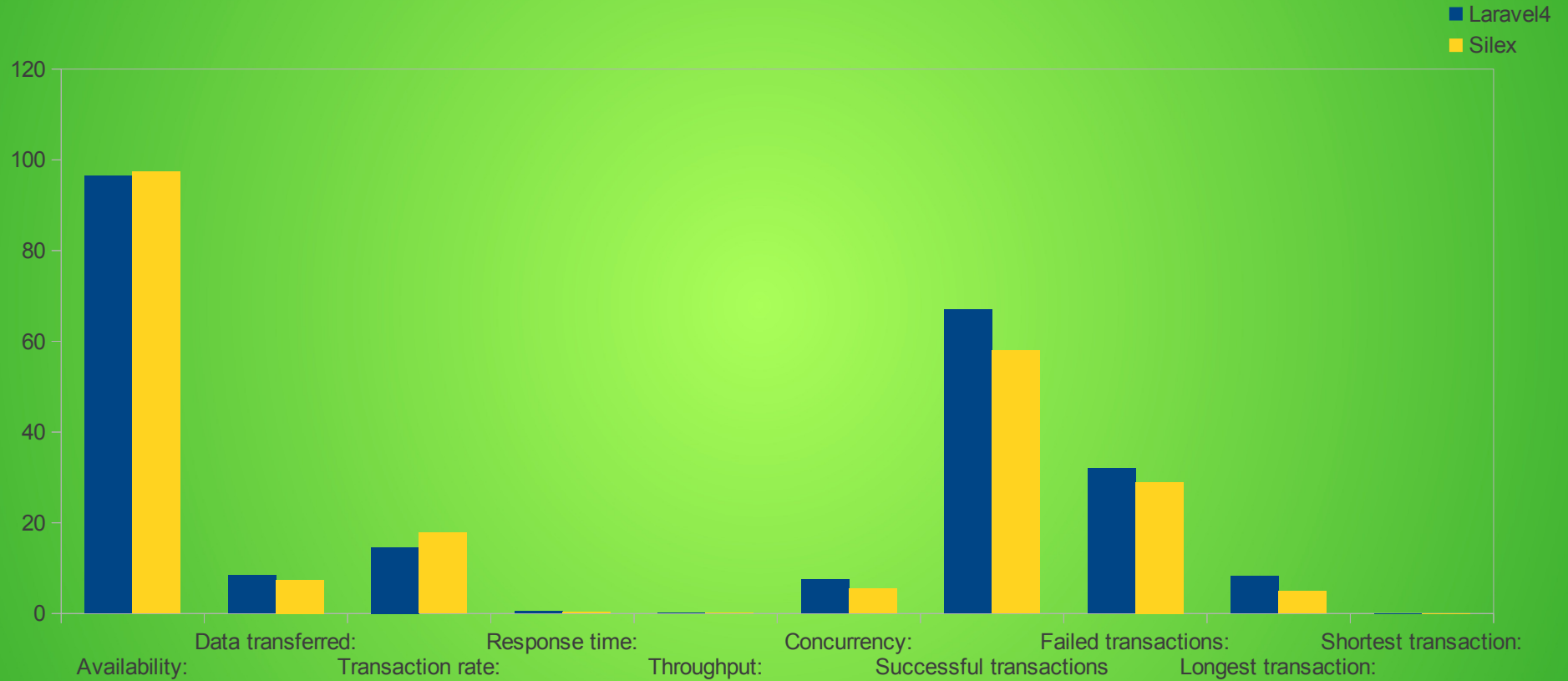
Results	appfog		Engine Yard		heroku		openshift	
Framework	Silex	Laravel4	Silex	Laravel4	Silex	Laravel4	Silex	Laravel4
Transactions	1050	863	<b>N</b>	<b>S</b>	?	?		
Availability	97.31	96.42	<b>A</b>	<b>E</b>	?	?		
Data transferred	7.44 MB	8.48 MB	<b>T</b>	<b>L</b>	?	?		
Response time	0.31 s	0.51 s	<b>U</b>	<b>E</b>	?	?		
Transaction rate	17.77	14.59	<b>R</b>	<b>C</b>	?	?		
Concurrency	5.44	7.5	<b>A</b>	<b>T</b>	?	?		
Successful transactions	58	67	<b>L</b>	<b>I</b>	?	?		
Failed transactions:	29	32	<b>-</b>	<b>O</b>	?	?		
Longest transaction:	4.95	8.23	<b>-</b>	<b>N</b>	?	?		



# Charts!



# AppFog



# Conclusion

- Orchestra - free plan is not enough even for startup-fest. It will lag on final pitches.
- AppFog -
- Heroku -
- Openshift
- Silex – Fastest! For Symfony2 developers the best choice!
- Laravel4 – Weirdo DBAL. Fast but silex kicks his ass.

# Conclusion

- Orchestra - free plan is not enough even for startup-fest. It will lag on final pitches.
- AppFog – Easiest!
- Silex – Fastest! For Symfony2 developers the best choice!
- Laravel4 – Weirdo DBAL. Fast but silex kicks his ass.

# Engine Yard - Orchestra

Plus:

- Well documented



Minus:

- Free plan is not enough even for startup-fest. It will lag on final pitches.

# Heroku



Plus:

- Super rich add-ons market!
- Most of the add-ons have free plan!
- Easy to configure

•  
Minus:

- Only one node for free
- Deployment **Massacre**

# Q&A

- Dare to ask!



