

Scale WordPress on AWS (in 15 minutes)

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The Global *PHP* Conference

zendcon 2015

October 19-22, 2015 • Las Vegas, NV

Agenda

- **Introduction**
- **WordPress Challenges in a cluster set up**
- **Zend Server on AWS**
- **Setup your Cluster**
- **Deploy your cluster ready WordPress app on AWS**
- **Q&A**

About me

- Working @Zend for the last 9+ years
- Managing Zend's Cloud initiatives (and few other roles...)
- AWS user for....ever
- Years of web applications development and operations
- Blogging about Cloud in H-E-B-R-E-W!

Find me @:



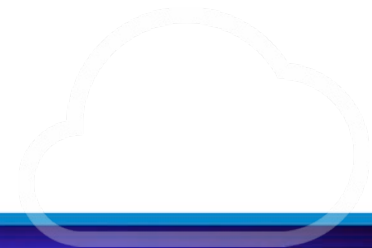
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WordPress Challenges in a cluster setup

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Storing images and media on multiple servers



Deployments

Deployments

```
20 switch ($deployments) {
21     case "New_code":
22         return true;
23         break;
24     case "Repeatable_deployments":
25         return true;
26         break;
27     case "Automations":
28         return true;
29         break;
30 }
31
32 define('DB_NAME', 'database_name_here');
33
34 /** MySQL database username */
35 define('DB_USER', 'username_here');
36
37 /** MySQL database password */
38 define('DB_PASSWORD', 'password_here');
39
40 /** MySQL hostname */
41 define('DB_HOST', 'localhost');
42
43 /** Database Charset to use in creating database tables. */
44 define('DB_CHARSET', 'utf8');
```

Scale up and SCALE DOWN



Synchronize Settings



Sessions handling



WordPress Challenges in a cluster setup

- **Storing images and media on multiple servers**
- **Deployments**
 - ▶ New code
 - ▶ Repeatable deployments
 - ▶ Automations
- **Scale up and SCALE DOWN**
- **Synchronize Settings (between environments and servers)**
- **Sessions handling**
- **Cron jobs***

The Solution



zend[®]Server

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Why use this approach

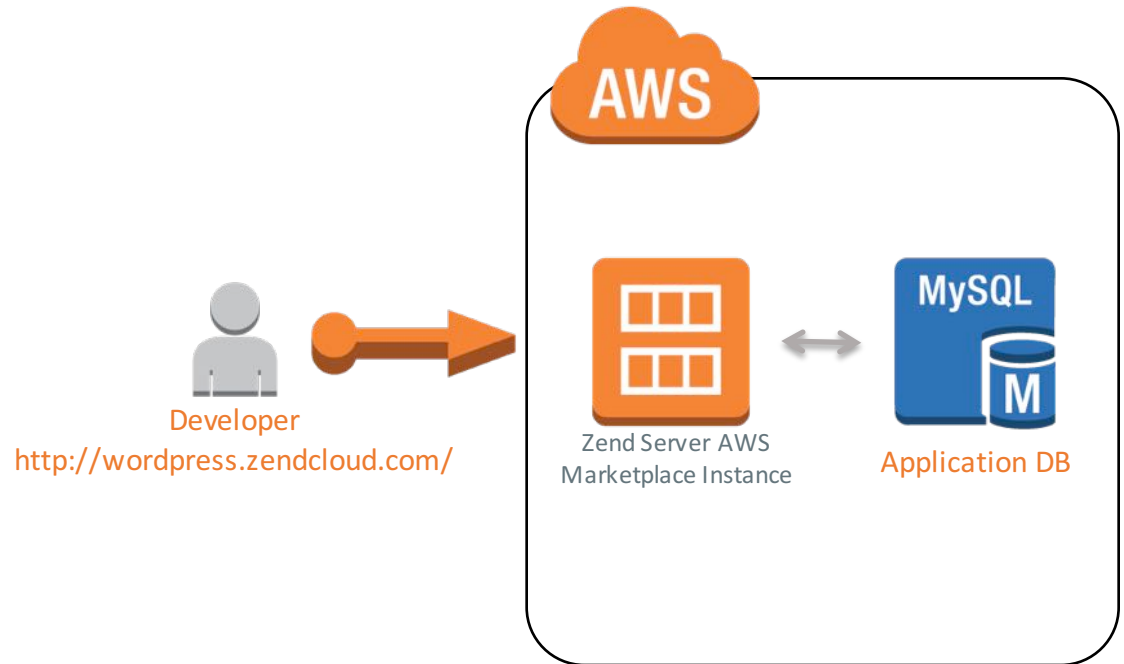
- **Better than NFS and rsync solutions**
- **No need to have a master node**
- **No need to capture images of servers to scale from**
- **Easier deployments**
- **Zend Server provides caching out of the box**

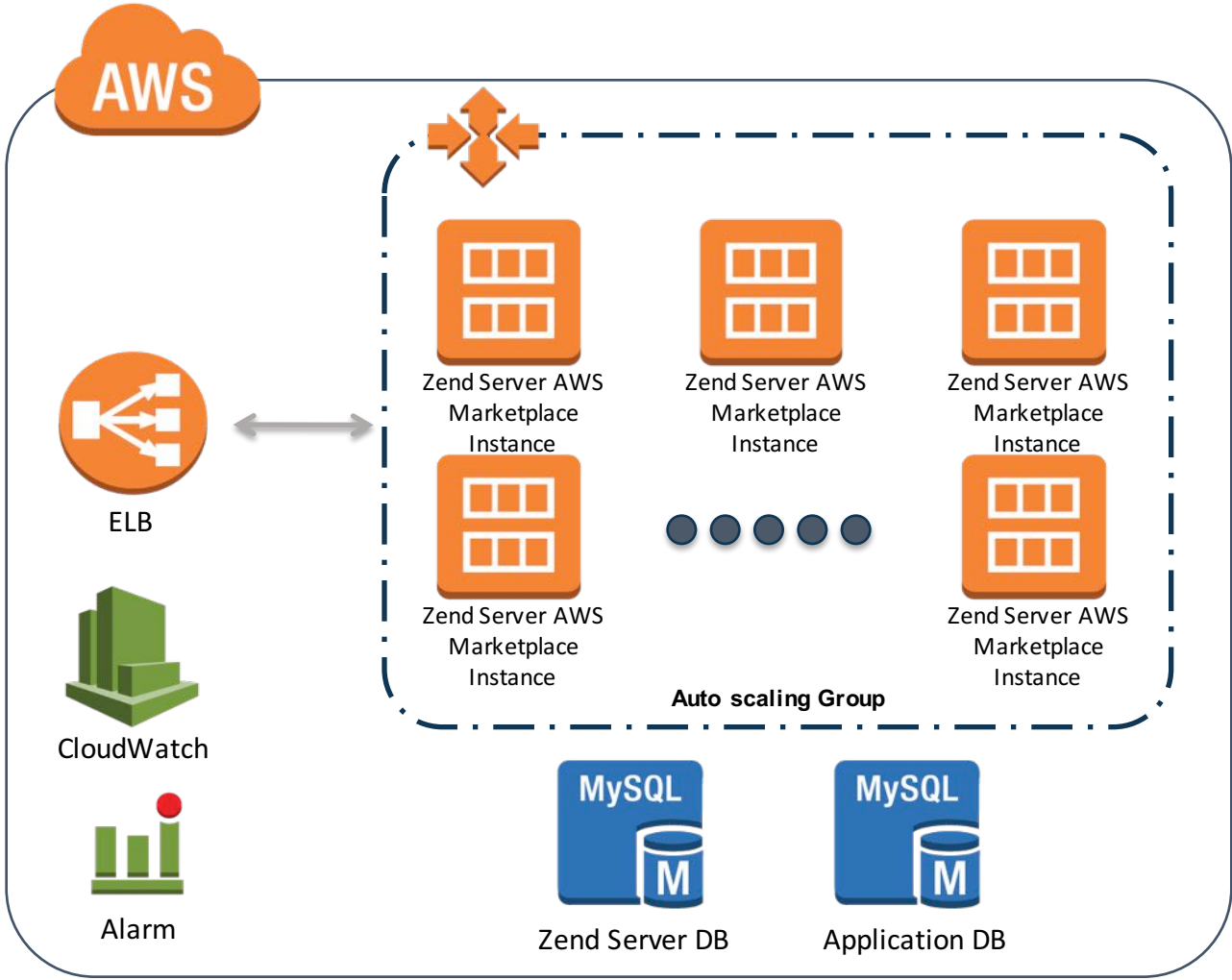
Zend Server on AWS Marketplace

- The fastest way to get Zend Server in the Cloud
- Pay as you go (based on your instance type) & 30 days free trial
- Full SLA and Support
- Available for PHP 5.3 – 5.6
- Devbox for less than €5/hour
- AWS Z-Ray extension
- CloudFormation template generator

Basic Single Server Setup

- One instance with Zend Server using AWS Marketplace
- MySQL for app
- Elastic IP





Local Setup

- **Zend Server and MySQL running on Docker containers**
- **Latest Vanilla WordPress (4.3.1) from wordpress.org**
 - ▶ A nice theme (Radiate)
 - ▶ Amazon Web Services & Amazon S3 and CloudFront Plugin*
- **A repository on github (check <https://github.com/ziniman>)**
- **Zend Studio to edit my code and create a Zend Server ZPK**

Some shortcuts I did

- **Setup WordPress on my local box (Docker using Kitmatic)**
- **Configure my blog**
- **Dump the DB**
- **On AWS**
 - ▶ Deploy my Dev DB on it
 - ▶ Edit DB to production hostname

15 minutes.... GO

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Resources

- **Zend CloudFormation generator**

- ▶ <http://bit.ly/zendcf>

- **Zend Server on AWS Marketplace**

- ▶ <http://bit.ly/awszend>

- **Zend Server on Docker**

- ▶ <http://bit.ly/dockerzend> (or search for Zend on Docker Hub)

- **Git repo of this demo**

- ▶ <http://bit.ly/wpcluster>



The PHP Company

Thank You!

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