



The PHP Company

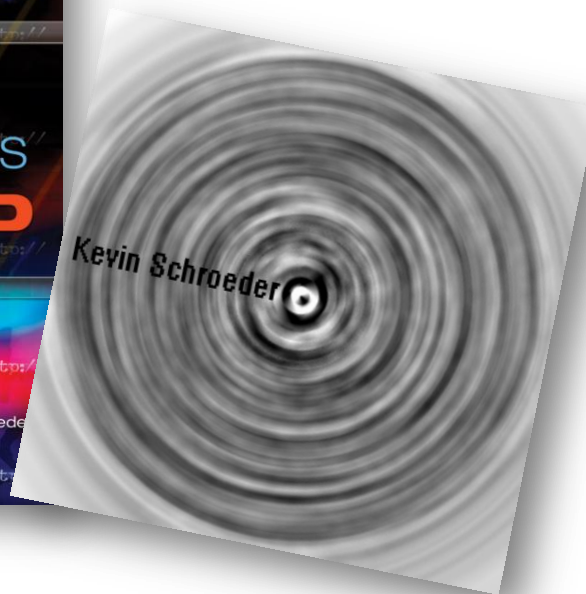
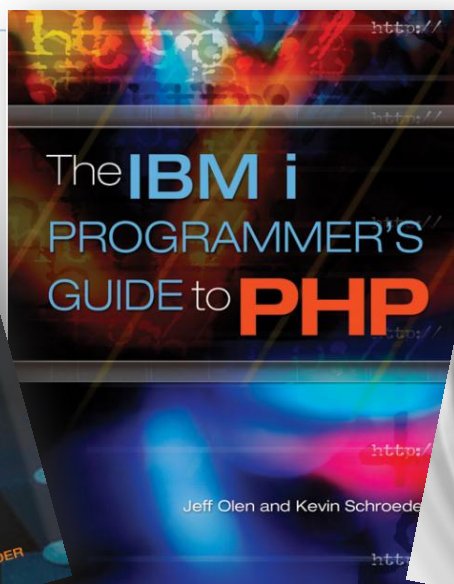
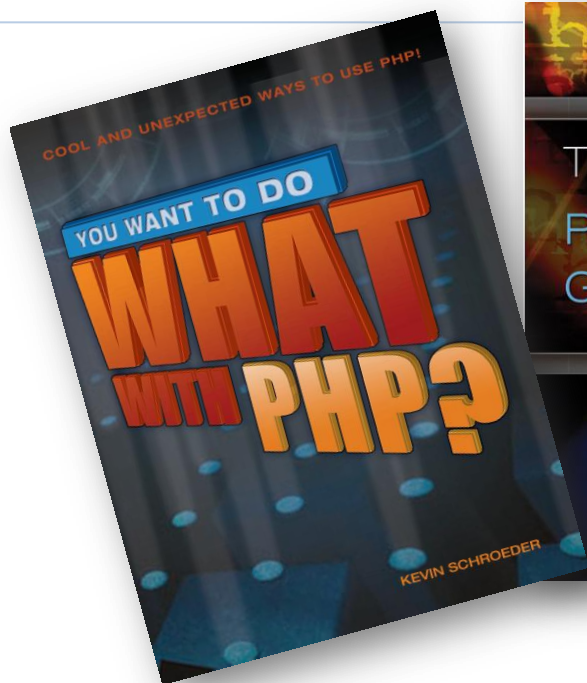
Application Deployment With Zend Server 5.5 Beta

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About Kevin



Past: Programming/Sys Admin

Current: Technology Evangelist/Author/Composer



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Zend PHP Conference
October 17-20, 2011 – Santa Clara, CA

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The premier PHP conference!

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Conference Themes

Cloud Computing

Learn about the latest developments in PHP Cloud infrastructure, management and application services

Mobile and User Experience

Learn how to build engaging mobile apps with the latest PHP technologies and tools

Enterprise and Professional PHP

Explore PHP best practices, new technologies and practical tips with industry experts

Conference Highlights

- Sessions focused on how to best develop and deploy PHP
- Sessions designed for all knowledge levels
- Intensive tutorials for accelerated learning
- PHP Certification crash courses and testing
- Exhibit hall showcasing the latest products
- Special networking opportunities during meals and

www.zendcon.com events

Agenda

- **Application Deployment With Zend Server 5.5 beta**
 - ▶ Also called “What’s new in beta land!”
- **Introduction**
- **Workflow**
- **Deployment Configuration**
- **Third Party Integration**

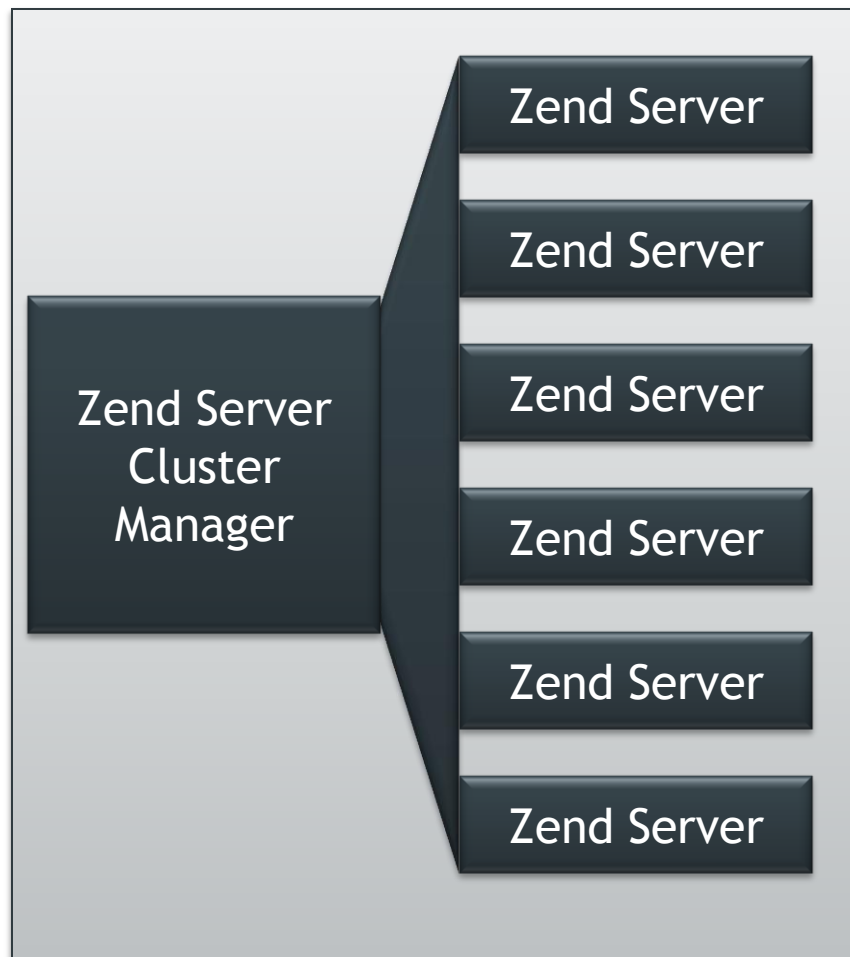
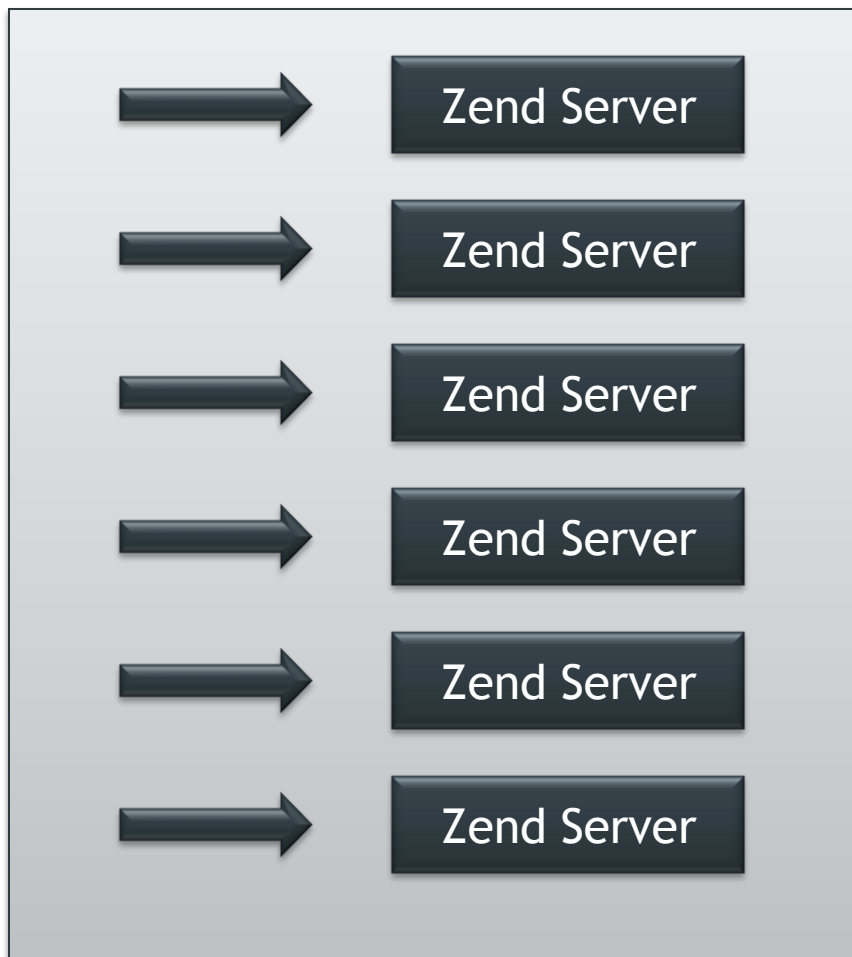


zend Server 5 *PHP Web Application Server*

zend server cluster manager

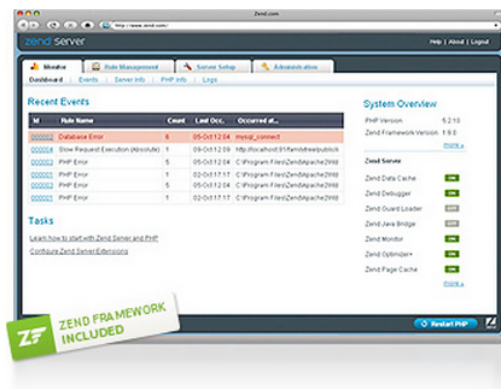


Two methods, same end



Starting with the basics

- Install Zend Server 5.5 beta



Zend Server Beta Downloads

Zend Server is a Web Application Server for running and managing business-critical PHP applications in production.

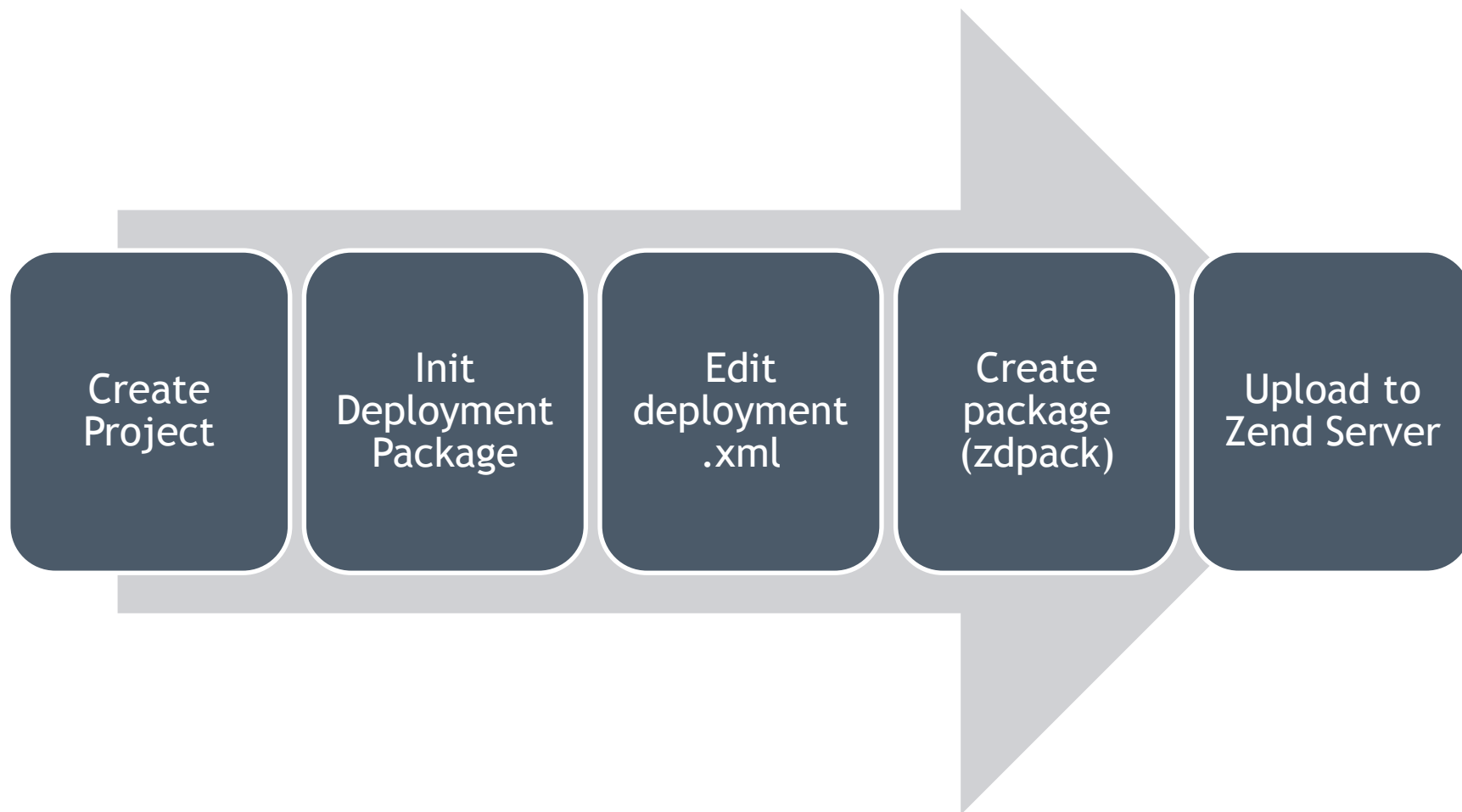
- Improved PHP application performance
- Application monitoring and diagnostics integrated with Studio
- Production-ready PHP stack that includes Zend Framework

Zend Server 5.5 Beta features **PHP application deployment** for single server or clustered environments.

Don't have a license? Get a free 30 day trial license - click "Generate a Trial License" button link after downloading.

Product	Version	Format/Size	Notes
Zend Server 5.5 Beta	5.5.0-beta for PHP 5.2	(EXE) 59.90 MB	Release Notes
Zend Server 5.5 Beta	5.5.0-beta for PHP 5.3	(EXE) 62.92 MB	Release Notes

Workflow



zdpack

```
zdpack --help | [--scripts-dir=<directory>] [--lint]
[--schema=<xsd-file>] [--src-dir=<directory>] [--output-dir=<directory>]
[--php-exe=<php-executable>] [--package-descriptor=<xml-file>]
```

```
zdpack pack [package-directory]
```

```
zdpack create <application-name>
```

```
zdpack validate [--schema=<xsd-file>] <package-xml-descriptor-file>
```

Structure of a default deployment

data/index.php

data/LICENSE.txt

deployment.xml

scripts/post_activate.php

scripts/post_deactivate.php

scripts/post_stage.php

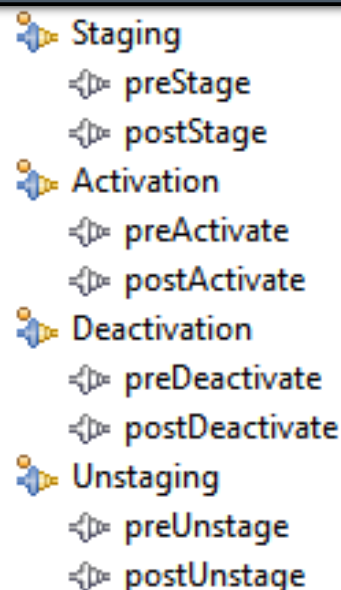
scripts/post_unstage.php

scripts/pre_activate.php

scripts/pre_deactivate.php

scripts/pre_stage.php

scripts/pre_unstage.php



Editing the Deployment Descriptor

- **name** - Name of the application
- **summary** - Short summary
- **description** - Long Description
- **version** - Application version
- **eula** - relative link to a licensing agreement
- **appdir** - relative link to the main application directory
- **docroot** - the public document root
- **scriptsdir** - directory where the deployment scripts live
- **baseUrl** - base URL of where the application will be deployed
- **dependencies** - PHP-level requirements
 - ▶ php
- **extension** - required PHP extensions
 - ▶ name
- **Directive** - directive configuration limits
 - ▶ name

Creating a hook

- **Predefined constants**

- ▶ `ZS_RUN_ONCE_NODE`
- ▶ `ZS_WEBSERVER_TYPE` - will contain a code representing "IIS" or "APACHE"
- ▶ `ZS_WEBSERVER_VERSION` - will contain the web server version
- ▶ `ZS_WEBSERVER_UID` - will contain the web server user id
- ▶ `ZS_WEBSERVER_GID` - will contain the web server user group id
- ▶ `ZS_PHP_VERSION` - will contain the PHP version Zend Server uses
- ▶ `ZS_APPLICATION_BASE_DIR` - will contain the directory to which the deployed application is staged.
- ▶ `ZS_CURRENT_APP_VERSION` - will contain the version number of the application
- ▶ `ZS_PREVIOUS_APP_VERSION` - will contain the previous version number of the application
- ▶ `ZS_*` - User defined parameters
 - `db_host == ZS_DB_HOST`

Demonstrating deployment

Scripting Deployment

- Requires use of the Zend Server API
- A wealth of unofficial tooling has sprung up around deployment
- <http://code.google.com/p/zend-sdk/>
 - ▶ Eclipse plugin!
 - <http://code.google.com/p/zend-sdk/wiki/ZendSdkEclipsePlugin>
 - ▶ CLI tooling
- <http://code.google.com/p/zend-hudson-plugin/>

Demonstrating the Eclipse plugin

Zend-SDK

- Connects to Zend Server /w the Zend Server API

Valid actions are composed of a verb and an optional direct object:

create	project	: Creates a new Zend project.
update	project	: Updates a Zend project.
list	targets	: Lists known deployment target environments.
add	target	: Adds new target environment for deploying applications.
remove	target	: Removes target from the know targets list.
detect	target	: Detects target on localhost.
update	target	: Updates target's parameters.
list	applications	: Lists applications installed on target.
deploy	application	: Deploys application to target.
redeploy	application	: Re-deploys application on target.
update	application	: Updates application to target.
remove	application	: Removes application from target.
discover	application	: discover new application from the repositories list.
create	package	: Creates deployment package.
add	repository	: Add repository to the discovery list.
remove	repository	: Removes repository from the discovery list.
list	repositories	: Show the list of repositories.
generate	repository	: genertae a repository for a package
help		: shows help information.

Demonstrating the SDK

Source Control Integration

Hudson/Jenkins/CI Integration

(work in progress)

Questions?

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