

Evolving PHP 4 Applications to PHP 5 with Zend

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About me

- **Who am I : John Coggeshall**
 - Senior Architect, Zend Global Services
 - Author PHP5 Unleashed
 - Zend Educational advisory Board
 - Speaker on PHP Related topics worldwid
 - Geek

PHP4 End of life?

- **PHP4 was born in 2000**
- **Community support to PHP4 ends end of 2007**
- **PHP4 sources and binaries will be available.**
- **Critical security fix until 8 August 2008**
- **PHP5 is three years old**
 - **Stable, fast and fully supported**
- **PHP6 is on the way...**

Why Consider PHP5?

- **PHP 5 Features extend application capability**
 - Improve Performance
 - Simplify Maintenance
 - Web 2.0 Integration
- **Proven in business-critical deployments**
 - Spanning all platforms from Linux to IBM i5
- **Transition on your own terms**
 - No new development being done to PHP 4
 - Support no longer available after December
 - No critical security fixes after August

Why Consider PHP 5? – PHP 5 Features

- **Improved Performance**
 - New Zend Engine (v.2) in PHP 5 – Up to 4X faster
 - New Object Model
 - Better memory manager
- **Simplified Maintenance**
 - Cleaner Architecture
 - Better object model: Interfaces, cloning, design pattern
 - Good frameworks for modern Web apps
- **Web 2.0 Integration**
 - Better XML support
 - Web Service standards support
 - Easy SOAP

Transition considerations

PHP4 code doesn't run on PHP5 at first run

It's hard to move to PHP5 in one big step

Redesign needs PHP4 and PHP5 at same time

How do I control quality?

Transition not Migration

- **Transition on your own terms**
 - You will likely move anyway
 - Minimize risk by planning for it now
- **Determine what you ‘need’ to do**
 - Both quantitative and qualitative analysis
- **Plan an effective migration**
 - Make current code PHP 5 compatible first
 - Determine ideal capabilities
 - Create your unique transition plan

What you need to watch out for

- **Transitioning to PHP5 is not without pitfalls**
 - Object oriented code in PHP 4 may not be compatible with PHP 5
 - Backward-compatibility breaks with PHP4 APIs in some circumstances
 - Hard to identify behavior changes in PHP APIs
- **Zend can help ensure a smooth transition**

Enlist PHP Expertise

- **Minimize Risk – Ensure a smooth transition**
 - Qualitative analysis requiring context and expertise in PHP
 - Proven Methodology
 - Best Practices – Derived from real projects
- **Minimize Cost – Get it right the first time**
 - Keep your resources focused on day to day
 - Ensure migration is done effectively the first time
 - Confident that your transition plan will meet your objectives

Application Analysis Service

- **Provides customer with a detailed-actionable report**
 - Quantifiable incompatibilities
 - Unquantifiable incompatibilities
 - Transition recommendation

Application Implementation Service

- **Implement customer transition Plan**
 - Re-write code as specified,
 - Deliver a production quality PHP 5 Compliant application
 - Infrastructure set up, Testing and QA

Migration Services Methodologies

PHP4 - PHP 5 Methodology Main Steps

Analyze

Review Customer Objectives
Set Milestones

Define quality processes

Perform Analysis

Detailed Actionable Report

Implement

Review Report Recommendations
Set Milestones

Define quality processes

Implement
Test
QA

Production Quality
PHP5 Application

Every steps has clear deliverables

Application Analysis Service - Detail

Activities

- **Identify all PHP and XML libraries used: Smarty, Pear**
- **Identify all extensions: zip, pdf, xml, SOAP...**
- **Identify critical code patterns and other migration issues**

Deliverables

- **Changes needed: List of fixes, code rewriting rules**
- **Transition recommendations**

Application Implementation Service - Detail

Activities

- **Implement customer transition plan**
- **Fix critical issues from Application Analysis**
- **Install Infrastructure as required: Zend Core**
- **Test on Zend Debugger/Profiler Strict mode**

Deliverables

- **PHP.INI template (ze1.compatibility off)**
- **Running PHP 5 compliant application**

Zend Supporting Your Transition to PHP 5

Zend Core

- **Solid PHP 5 Stack**

Zend Studio

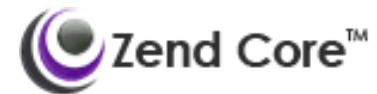
- **Best IDE for PHP 5-fully integrated**

Zend Platform

- **Best Web App. Server for Production**

Zend Consulting Services

- **Industry thought leaders and PHP experts**



Thank you!