



The PHP Company

Zend Server for IBM i in Action

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Agenda

- **No, This is not a repeat of last months Webcast!**
 - ▶ OK, I think I am recycling about 10 slides. Forgive me 😊
- **Explore resources**
- **Review key components of Zend Server for IBM i**
- **Installation - Update!**
- **Code Tracing in Depth**
- **Demo**
 - ▶ Demo programs
 - ▶ Job Queue
 - ▶ Code Tracing Enhancements
 - ▶ More performance opportunities

Questions?

- If you have a question you can

- ▶ Type in the Q&A panel
- ▶ Tweet #zendwebinar

- Follow us!



- ▶ <http://bit.ly/cjueZg> (Zend Technologies or search for Zend)



- ▶ <http://twitter.com/zend>

Resources

- Recorded Webinars

- ▶ <http://www.zend.com/en/resources/webinars/i5-os>
- ▶ This one in a few days
- ▶ Last months Intro to Zend Server for IBM i
- ▶ Also a demo of Zend Server installation!
- ▶ Lots of other goodies

- Zend Server manual:

- ▶ PDF: <http://www.zend.com/topics/Zend-Server-5-for-IBMi-Reference-Manual.pdf>
- ▶ Online: http://files.zend.com/help/Zend-Server-5/zend-server.htm#installation_guide.htm

IBM Relationship FAQ's

- **What do we get?**
 - ▶ Zend Server CE
 - ▶ Zend Studio
 - ▶ 1 year Silver Level Support (email/web 72 hour response)

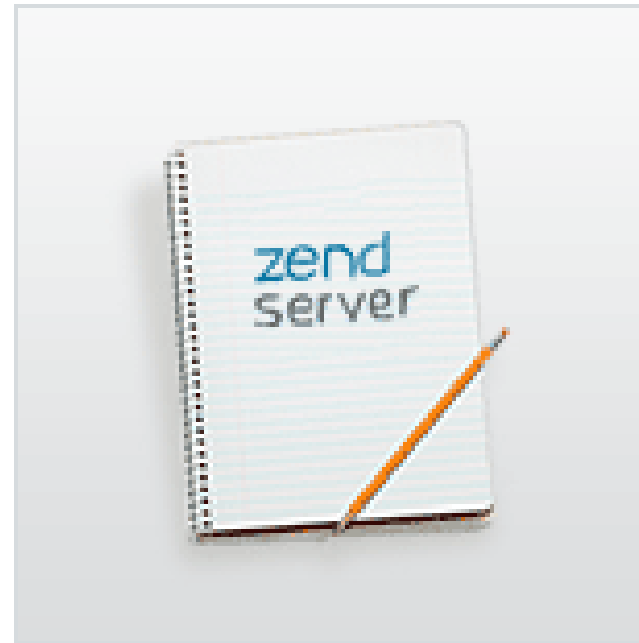
- **What happens after 1 year?**
 - ▶ Product will still run
 - ▶ No updates to product or PHP
 - ▶ No support

IBM Relationship FAQ's

- **What do I do when support runs out?**
 - ▶ Roll the dice
 - ▶ Zend account representative can discuss support options

- **I downloaded Core and it's been a year. Can I download Server and get support for another year?**
 - ▶ No, the support entitlement is by system, not Zend Product
 - ▶ The product will still run, however.

Zend Server 5.0 GA on 02/23/2010!



- The Linux and Windows distributions are now GA
- IBM i distributions will be coming soon
- Code base consistency is making this gap smaller
- Training class available...see zend.com/store for more info

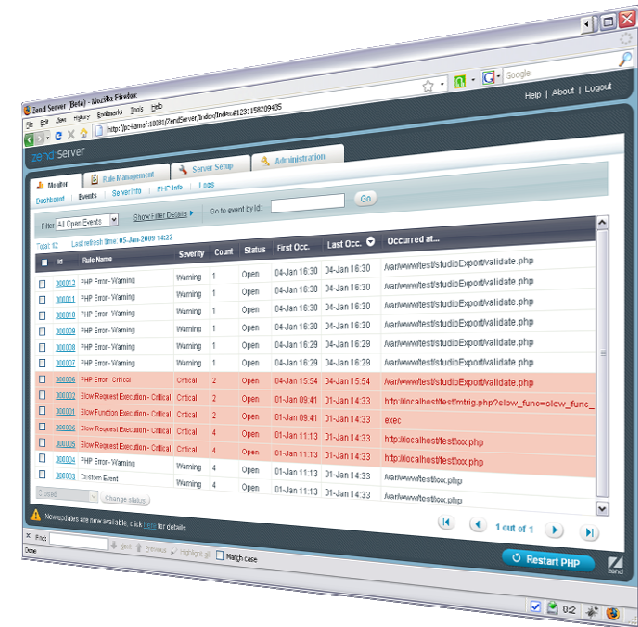
Zend Server 5 for IBM i

www.zend.com

Technical overview

What Is Zend Server?

- Production quality PHP stack
 - ▶ PHP, ZF, DB connectivity, debugging extension, and more
- Two Editions - Free “Community Edition” provided by IBM & Full commercial edition
 - ▶ Both are production ready
- Application monitoring and diagnostics (integrated with Zend Studio)
- Multi-level performance enhancement capabilities
- Software updates and security hot fixes
- Easy and quick installation
- Zend Framework Integration



Zend Server for IBM i

- Next generation of PHP stack for IBM i
- Best of both Zend Core and Zend Platform
- Single Licensed Program Installation
- Two products
 - ▶ Zend Server for IBM i Community Edition
 - Available at no charge per IBM partnership
 - ▶ Zend Server for IBM i
 - Subscription available from Zend
 - High value extra features
 - Higher Support SLAs

Why a new generation?

- **Based on feedback of key areas for Improvement**
- **Improved basic PHP Performance**
 - ▶ 30% to 600% depending on the application
- **New capabilities**
 - ▶ Code Tracing - Faster problem resolution
 - ▶ Job Queue - Performance and scalability
 - ▶ Page Caching - Performance and Scalability
 - ▶ Support for PHP 5.3
- **Easier installation, administration & maintenance**

Zend Server vs. CE comparison

Features	Zend Server	Zend Server Community Edition
Native installation	✓	✓
Certified PHP	✓	✓
Zend Framework	✓	✓
Apache or IIS integration	✓	✓
MySQL (on Windows and Mac)	✓	✓
Built-in DB connectivity (Oracle, DB2, MySQL,...)	✓	✓
Java connector	✓	✓
Web-based administrator console	✓	✓
Debugger interface	✓	✓
Bytecode acceleration	✓	✓
Caching API	✓	✓
Page caching	✓	
Application monitoring (alerting)	✓	
Application problem diagnostics	✓	
Zend Download Server (Linux only)	✓	
Software updates and hot fixes	✓	
Technical support	✓	

Zend Server for IBM i

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Installation - Update!

Zend Server Installation

- Current installation is beta
- Save File Only, Windows installer by GA
- Updated Fast CGI built by IBM requires PTF's
 - ▶ Current group for 57nnDG1 - IBM HTTP Server for i5/OS
 - ▶ http://www-912.ibm.com/s_dir/sline003.nsf/GroupPTFs?OpenView&view=GroupPTFs
 - ▶ V5R4 - Updated!
 - PASE - SI36004 - Updated!
 - HTTP - SI36026
 - ▶ i6.1 - Updated!
 - PASE - SI36005
 - HTTP - SI36027

Zend Server Administration

- New unified interface for all Zend controls
- Multi platform consistency in the interface

- Apache changes
 - ▶ Single server (YAY!)
 - ▶ PASE server eliminated
 - ▶ IBM HTTP Server Powered by Apache
 - ▶ PHP implemented using Fast CGI developed by IBM
 - ▶ Restart button saves round trip to green screen!

Zend Server 5 for IBM i

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Code Tracing, in Depth

Code Tracing Supported Workflows

- **Monitoring workflow:**

- ▶ When a monitoring event is created, the associated trace data of the specific request is captured
- ▶ Trace data is attached and associated to the monitoring event

- **Manual tests/functional workflow:**

- ▶ Manually through the GUI or from a browser by adding a parameter to the request

- **Production workflow**

- ▶ Can be activated automatically in case of a Zend Monitoring event, for example a PHP error, a slow execution or high memory usage

Code Tracing Enhancements since last demo

- We are working this stuff pretty hard 😊
- Toggle Critical path display
- Toggle Memory display
- Arguments display

Zend Server 5: Technical Overview

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Job Queue

Job Queue allows you to...

- **Put certain tasks into a separate execution queue**
 - ▶ Off-load to new process (or defer to a later time)
 - ▶ Off-load to a different server
- **Execute certain tasks at a specified time**
 - ▶ Distribute processing load to off-hours
- **Execute certain tasks periodically**
- **While..**
 - ▶ Maximizing reuse of existing infrastructure & code
 - ▶ Making sure nothing falls between the cracks
 - ▶ Doing it all from a PHP API

Creating Jobs

- Jobs are created using the *createHttpRequest()* method

```
$queue = new ZendJobQueue ();  
$queue->createHttpRequest (  
    'http://backend.local/jobs/somejob.php' );
```

- Pass parameters
 - ▶ Simple ones, via query string *\$_GET*
 - ▶ Complex ones, as an associative array of key => value pairs
- Set job options
 - ▶ Name, priority, schedule, etc.
 - ▶ Create deferred or recurring jobs
- Or... create from the UI

Demo Agenda

- Demo programs
- Code Tracing update
 - ▶ My broken script
- Job Queue
 - ▶ Recurring job

Thank you & Q&A

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