

## IBM and Zend Deliver PHP for IBM i



### Highlights

- **PHP is a leading scripting language for Web applications**
- **Zend™ delivers PHP Development and Production Solutions for IBM i**
- **PHP applications can easily access business data and applications on IBM i**
- **IBM i provides popular open source stack for applications with Apache™, MySQL™, and PHP**
- **IBM i and PHP combination provides an integrated and open Web application environment**

### IBM i, Zend and PHP: An integrated approach

An open and integrated infrastructure can give you added flexibility and choice in adapting to new challenges and opportunities, while taking advantage of your current investments and assets. Customers who need to create innovation in their business and are looking for an easy, cost-effective and rapid way to deploy Web applications can experience a new solution from IBM and Zend Technologies, Inc., who have teamed together to provide an integrated and open Web application deployment environment using PHP on Power Systems™ running IBM i.

PHP is a powerful, open and easy-to-use Web application environment that has the support of a large community with thousands of applications and components to share. It is an open source scripting language that is designed for Web application development and enables very simple scripting. Short for "PHP: Hypertext Preprocessor," PHP is widely used for content management, customer relationship management, database access, ecommerce, forums, blogs, wikis and other Web-based applications.

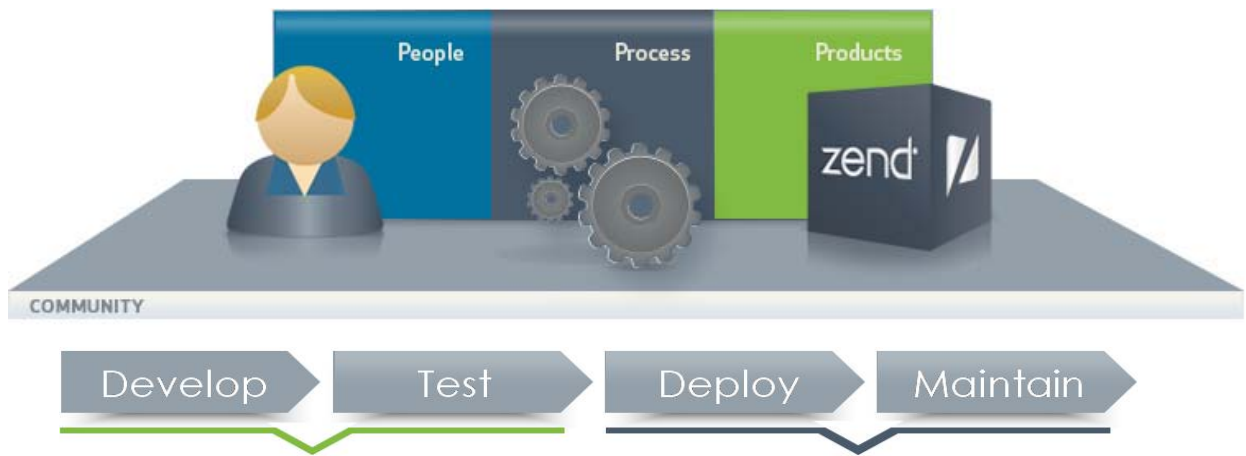
With more than 20 million Internet domains<sup>1</sup> and countless more intranet sites, PHP is gaining attention within the development community and enterprises around the world.

With its easy-to-use development approach, PHP is a natural fit for IBM i customers and developers offering improved productivity and rapid deployment. Having PHP capabilities for i makes available existing PHP-based components and applications to i customers. PHP applications are easily integrated with data in IBM DB2® for i and RPG, COBOL and other business applications on i. With millions of PHP developers, IBM i customers have access to a large pool of skilled resources for Web enablement projects.

### Zend, The PHP Company

Businesses utilizing PHP recognize Zend as the place to go for PHP expertise and sound technology solutions. Andi Gutmans and Zeev Suraski, two of Zend's founders, are key contributors to PHP and creators of the open source Zend Engine. Recognized internationally, the company and its founders hold leadership roles in the PHP and open source communities and play a central role in the explosive growth of PHP.

In addition to the Zend Engine, which provides the PHP runtime environment for millions of Internet and intranet sites, Zend delivers products and services that enable developers and IT personnel to develop, deploy and maintain business-critical PHP applications, taking the power of PHP to the enterprise. Over 20,000 customers have purchased Zend products or services.<sup>2</sup> Zend offers a full portfolio of products and services for IBM i, including training courses, consulting services and the following products: Zend Studio for Eclipse, Zend Core, and Zend Platform.



From development to production, Zend helps you at every stage of the PHP application life cycle through a combination of enterprise-grade products, comprehensive services (training and consulting) and support. From modernizing legacy applications and leveraging business logic in your databases to creating PHP web-based applications on IBM i, Zend solutions for IBM i are designed to help you rapidly develop Web-based applications that maximize the power of IBM i. These solutions can help you improve the productivity of your IT staff and lower the total cost of ownership.

## People

### Develop Modern Web Applications with easy to learn PHP

One of the advantages of developing applications with PHP and Zend is that you can develop modern web-based applications quickly. The procedural origins of PHP, makes it the ideal language for RPG developers to develop web applications. PHP's simplicity along with Zend's development environment, PHP engine and abundant sample code make it easy to build web applications.

### Enhance your PHP knowledge

Zend offers courses tailored for the RPG developer to help create a consistently high level of technical PHP know-how, instill best practices

and ensure application knowledge is maintained in-house. From course such as: *Quick Start: PHP for RPG Programmers and PHP I: Foundations (IBM i Programmers)* through Sys Admin training and PHP Certifications, Zend provides training services to help shorten your time to productivity, ensure consistency, and instill best practices for your PHP projects.

### Leverage Zend's PHP expertise

In addition to training, Zend offers consulting services to help customers who rely on the power of IBM i to rapidly modernize and adopt PHP for their web application projects. Throughout PHP expert delivered services such as *Smart Start for IBM i*, customers receive comprehensive PHP knowledge transfer, a fully operational (PHP-based) pilot project deployed on IBM i, and a foundation of PHP best practices. Packaged Services designed for the deployment and maintenance phases of the application life cycle, such as performance and security audits, are also available.

## Process

### Productivity through Process and Best Practices

Frameworks and best practices mean reduced training costs, quicker time-to-market and higher quality code – important factors in adoption decisions. Built so one can pick and choose just the pieces needed to turbo charge web

applications – developers know where to find their PHP / Zend Framework code, speeding new development and reducing maintenance costs.

Zend Framework provides a lightweight, loosely-coupled component library simplified to provide 4/5s of common functionality letting developers focus on customizing the other 20% of their application to meet specific business needs. By focusing on the most commonly needed functionality, the simplified spirit of PHP programming is retained, dramatically lower the learning curve, and training costs – so developers get up-to-speed quickly.

## Products

### Deploy faster, maintain easier

The IBM i platform combines the operating system, middleware, database, security and storage into a single integrated system. A single system is less costly, deployed more quickly and managed more easily than a network of single application servers. Instead of supporting and maintaining multiple disparate servers, you can simply integrate operations, networking and server management with IBM i to deliver the applications you need to run your business today and in the future.

IBM i customers can add PHP applications to their i environment to benefit from the integrated software,

secure architecture, leading availability and reliability, and enterprise scalability. IBM i has a proven track record of delivering the lowest cost of ownership for application deployments.

### **Rapidly Build and Deploy Web-enabled Applications and Web Services on IBM i**

Zend Studio for Eclipse is an industry leading PHP Integrated Development Environment (IDE) designed for professional developers, which includes all the development components necessary for the full PHP application lifecycle and integrates with the open Eclipse tool set. Through a comprehensive set of editing, debugging, analysis, optimization and database tools, Zend Studio speeds development cycles and simplifies complex projects. For IBM i, Zend Studio for Eclipse provides specific extensions to take advantage of the capabilities of the PHP toolkit and is the preferred development platform for PHP applications and Web Services development on IBM i.

### **Accessing Data and Applications via Browser**

Zend Core is a fully supported, tested and enhanced version of the open source PHP. It provides the PHP runtime and delivers a seamless out-of-the-box experience on IBM i by including the necessary drivers and libraries to work with IBM i resources. Extensions and a toolkit are included with Zend Core to enable PHP programs to access IBM i data and resources. The tools also provide easy access to DB2 for i, programs, procedures, data areas, data queues, message queues and spool files.

### **Optimization and Integration**

Zend Platform is a robust PHP environment designed for IT personnel and businesses that require commercial-grade Web applications in highly reliable production environments. Operating like the QSYSOPR Message Queue for your PHP scripts, Zend Platform provides detailed application visibility. From development, through testing and

into production you can quickly respond to application and database issues and accelerate development, meet deadlines and ensure successful deployments every time.

For IBM i, Zend Platform also includes a Java Bridge and a 5250 Bridge to simplify the integration of PHP applications with other web and business applications. The 5250 Bridge provides PHP applications access to interactive, 5250 IBM i applications making it easy to create Web front ends for existing applications without rewriting the original interactive applications

### **Deploying open source applications**

In addition to developing your own Web applications with PHP, there are thousands of open source applications and components available via a simple download. These PHP scripts are typically written to the open source MySQL database. To support the deployment of these applications on the IBM i platform, IBM and MySQL AB™ have teamed together to provide the MySQL database on i. With support of Apache, MySQL, and PHP, IBM i provides a robust, secure and resilient environment for open source applications.

### **Getting started**

Zend Core is now preloaded with IBM i 6.1 and 5.4, making it quick and easy to get PHP up and running. IBM i clients can also download Zend Core and Zend Studio from zend.com. One year of Zend Silver Support is provided for no additional charge with Core and Studio for IBM i.

Zend Platform and advanced levels of support from Zend are available for an additional charge. Zend also offers training and services for IBM i clients.

There are thousands of PHP scripts available on PHP related Web sites that can be used as-is or as the starting point for Web projects. These Web sites include: [www.sourceforge.net](http://www.sourceforge.net) and [www.hotscripts.com](http://www.hotscripts.com).

### **For more information**

To learn more about PHP and the IBM i solution, contact your IBM Representative or IBM Business Partner or visit [ibm.com/power/i](http://ibm.com/power/i) or [zend.com/i](http://zend.com/i)



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The IBM home page on the Internet can be found at <http://www.ibm.com>.

Note 1: Source [www.php.net/usage.php](http://www.php.net/usage.php)

Note 2: Source [www.zend.com](http://www.zend.com)

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