



Zend Platform™ 3 | PERFORMANCE MANAGEMENT – INTEGRATION – ENTERPRISE SCALABILITY

Are you responsible for operating PHP applications? If so, you need to prevent performance, integration and scalability issues that can cause unresponsive applications, a poor user experience, poor integration into your existing infrastructure and scalability and reliability issues. These problems are often hard to diagnose and correct and may lead to lost customers, downtime and constrained resources.

Zend Platform 3 At-a-Glance

The most complete PHP run-time environment solution features:

Code Acceleration

Dynamic Content Caching

Output Compression

PHP Intelligence - Reliability & Monitoring

Configuration Management

Web Services API

Seamless PHP/Java Integration

Business Intelligence and Reporting Tools

SNMP Traps

Session Clustering with High Availability Mode

Zend Download Server

Job Queues for Offline Processing

Product Highlights

Zend Platform is the only application server for PHP that supports the performance, management, integration and enterprise scalability requirements of organizations using PHP for their business-critical applications. By providing capabilities that streamline development and deployment, Zend Platform improves the user experience, application responsiveness, integration to your existing infrastructure, and increases application reliability and scalability.

With three editions available, Zend Platform is the must-have solution for ensuring reliable PHP applications that run at peak performance.

Zend Platform PS - Ideal for small to mid-sized organizations

Zend Platform PS provides the performance and management functions needed for every PHP deployment. The performance features are designed to maximize user responsiveness for your PHP application allowing applications to run significantly faster. The performance improvement is typically 2x-3x and can be as much as 150x depending on the type of application. The management features are designed to simplify the process of configuring your servers and monitoring the status of your PHP application.

Zend Platform IS - Ideal for any organization with application and infrastructure integration needs

Zend Platform IS provides the integration services needed by modern PHP applications and production environments. By providing integration to Java, reporting capabilities and SNMP integration, applications work in harmony with your existing infrastructure.

Zend Platform ES - Ideal for large organizations needing the utmost in scalability and reliability

Platform ES is the ultimate PHP solution incorporating all the features of Platform PS and Platform IS while adding enterprise-grade functionality for increased reliability and scalability in multi-server environments. By providing session clustering, a high availability fail-over solution, your application provides a more robust and reliable user experience.. The user experience and responsiveness is further enhanced with off-line processing and a high performance file download mechanism.

ZEND PLATFORM PS FEATURES:

PHP Intelligence (Management):

PHP Intelligence reduces downtime and simplifies the management of your PHP servers by monitoring activity, detecting, and recording a wide range of application issues that can impact performance and reliability. It can be configured to automatically notify administrators using standard technologies. Zend Studio is integrated with PHP Intelligence to provide superior diagnostic capabilities that allow problems to be recreated in the debugger and profiler with a single click which allows problems to be resolved quickly and easily. Benefits include:

- Real-time event driven system
- Monitors and identifies performance issues, script/function errors, database problems and much more
- Tracks script/function behavior and calculates normal-state averages

- Reports critical errors immediately using standard services (SMS, email, XML, etc.)
- Records and retains full PHP application aware context for reported problems for easily “root cause” diagnostic analysis
- Integration with Zend Studio provides debug and profile information for immediate fault diagnosis and repair

Code Acceleration (Performance):

Code Acceleration increases user responsiveness and application performance using a combination of automated caching and optimization techniques. Benefits include:

- 2x-3x increase in performance for most applications
- Requires no application changes

Dynamic Content Caching (Performance):

Dynamic Content Caching increases user responsiveness by caching generated pages, thus eliminating the need to regenerate pages. In many web applications, dynamically generated web pages are exactly the same once they are initially generated. By caching the results from the first access of a page, user responsiveness can be increased dramatically by eliminating costly operations such as database access. Benefits include:

- 20x to 150x increase in performance depending on the application
- Requires no application changes in most cases
- Supports full and partial page caching
- APIs provided to enable more complex scenarios
- Simple UI based setup and configuration

Output Compression (Performance):

Output Compression increases user responsiveness by reducing the time needed to send web pages to the browser. By compressing HTML output before it is sent to the browser, which is transparently decompressed by the browser, the amount of data that is transferred is significantly reduced saving time and bandwidth. Benefits include:

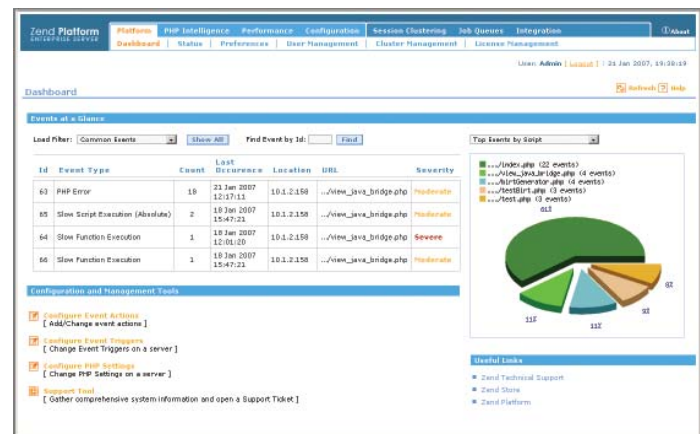
- Saves up to 90% of the original bandwidth
- Saves CPU compression overhead by working with Dynamic Content Caching
- Transparent support for most popular web browsers

Configuration Management (Management):

Configuration Management simplifies the management of the PHP application environment by centralizing performance settings, event thresholds, the configuration of PHP and other settings that affect application behavior. It allows the configuration to be copied across a group of servers to save time and prevent errors caused by inconsistent server setup. Benefits include:

- Performance tuning page allow quick adjustment to Zend Platform’s performance capabilities
- Dynamic Content Configuration allows easy caching configuration based on ‘match’ or ‘not match’ criteria based on a regular expressions
- Includes: PHP extensions visualization and highlighting of modified directive / extension value.
- Support configuration of a single server or an entire cluster by automated “cloning” of the configuration

ZEND PLATFORM 3 - PHP Application Performance Management, Reliability, Integration, and Scalability



Web Services API (Management):

Zend Platform APIs can now be invoked via Web Services, including PHP Intelligence and Cluster Configuration. Zend Studio 5.5, as an example, uses this functionality to integrate with Zend Platform in order to show PHP Intelligence events in Studio UI.

ZEND PLATFORM IS FEATURES:

Java Bridge (Integration):

Java Bridge provides capabilities that allow PHP developers to quickly create applications that interact with Java objects or J2EE services. This capability allows applications that merge the best of PHP with the best of your current Java infrastructure, to create rich applications that seamlessly integrate with your existing infrastructure. Java Bridge produces unprecedented performance and scalability by using an innovative design that utilizes a single Java Virtual Machine instance for all PHP operations. Benefits include:

- Seamless integration with Java classes & J2EE services
- Automatic type conversion to simplify programming
- Unprecedented performance and scalability by using direct calls to a single JVM

Business Intelligence and Reporting Tools Integration (Integration):

Business Intelligence and Reporting Tools (BIRT) integration improves the user experience by allowing PHP applications to produce compelling reports. BIRT provides core reporting functionality such as report layout, data access and scripting that allows quick creations of reports tailored to your business needs. Benefits include:

- Supports Web and PDF format

SNMP Integration (Integration):

SNMP Integration simplifies management of your PHP production environment by integration PHP Intelligence events into you existing infrastructure. It allows Zend Platform nodes to initiate a SNMP Trap to a SNMP server located in your cluster. With SNMP Traps PHP errors/warnings can be displayed via central data-center monitoring console systems. Benefits include:

- Report PHP Intelligence events in your existing SNMP infrastructure

ZEND PLATFORM ES FEATURES:

Session Clustering (Scalability):

Session clustering provides a more robust and reliable user experience by providing a high availability fail-over solution for your PHP environment. This highly scalable solution synchronizes session data across a cluster of PHP servers and automatically transfers to another server in the event of a failure giving a seamless user experience. Benefits include:

- Employs strong locking to insure reliability and integrity under high load
- Fully distributable HA solution
- Seamlessly integrated into PHP's native session extension without code changes
- 4x-6x times faster than other solutions in typical configurations
- Works with load-balancing techniques ranging from round-robin DNS to sophisticated load balancers

Zend Download Server (Scalability):

Zend Download Server increases scalability by offloading the process of sending files from the Apache web server freeing it to handle more user requests. Benefits include:

- Seamlessly plugs into the existing Apache/PHP configurations
- Increases download performance up to 10x for simultaneous file downloads

Job Queues - Off-line Processing (Scalability):

Job Queues improve user responsiveness by offloading long running processes that are not essential for the user interaction. By providing a capability to queue processes for execution in the background, responses are sent back to the user without waiting for the time consuming operations to complete. Benefits include:

- Schedule jobs now, in the future and for repeated operations
- Manage Jobs and Queues from the Configuration Management UI

Job Queue Server provides the ability to reroute and delay the execution of PHP scripts that are not essential during user interaction with the Web Server. Job Queues improve the response time during interactive web sessions and utilizes unused resources.

SYSTEM REQUIREMENTS

Supported Operating Systems:

- Linux x86, x86-64

Supported Web Servers:

- Apache 1.3.x
- Apache 2.0.x (compiled in pre-fork mode only)
- Apache 2.2.x (compiled in pre-fork mode only)

Supported Browsers:

- Microsoft IE 5.5 and above
- FireFox 1.5 and above
- Netscape 7 and above
- Mozilla 1.7 and above
- Safari

PHP COMPATIBILITY

- 4.3.9 and above, 4.4.x, 5.0.x, 5.1.x, 5.2.x

JAVA BRIDGE COMPATIBILITY:

- JRE 1.4 or later

ZEND: A COMPLETE SOLUTION TO YOUR PHP NEEDS

- Develop your PHP applications with Zend Studio™, the leading IDE for PHP
- Test your code and stage your applications with Zend Studio™
- Ensure your applications are always up and running with Zend Platform™
- Protect your Intellectual Property and manage your licensing models with Zend Guard™
- Get peace-of-mind by using only certified and supported versions of PHP with Zend Core™
- Enhance your employees' PHP proficiency with Zend Training™ Courses
- Leverage top expertise from the leaders of PHP with Zend Professional Services™
- Get first class support, up to 24x7, through the Zend Network™



DRIVING PHP TO THE ENTERPRISE

Zend Technologies, the PHP company, is the leading provider of products and services for developing, deploying and managing business-critical PHP applications. PHP is used by more than twenty two million Web sites and has quickly become the most popular language for building dynamic Web applications.

Deployed at more than 20,000 customers worldwide, the Zend family of products is a comprehensive platform for supporting the entire lifecycle of PHP applications.

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