

## Does Your AMP Stack Up?

### Building more efficient and effective Web applications



#### Highlights

- New “recipe for success” provides step-by-step instructions on how to deploy and get support for developing Apache, MySQL, and PHP/Perl/Python (AMP) applications for the Web
- A wide range of free and fee-based services and robust tools simplifies development while enabling companies to build Web tier applications for less
- Support for Sun Fire™ CoolThreads and x64-based servers boosts performance and helps reduce energy and real estate costs
- Open-source, standards-based solution runs on the greatest number of hardware platforms, giving customers extensive choice in how they develop and deploy Web tier applications
- Based on the industry’s most advanced operating system (OS), the Solaris™ OS + AMP solution delivers built-in enterprise-class reliability, scalability, and security optimized for Web 2.0



More organizations than ever before are using open-source solutions such as Apache, MySQL, and PHP to build applications and services for the Web. Unfortunately, some underlying operating systems lack the performance, flexibility, and support necessary to complete projects in record time and within budget. With Sun’s comprehensive software development solution, developers can leverage the same open-source applications and programming languages they already use while moving to a superior operating system. Sun solutions — including the fastest and most secure network stack and the most complete infrastructure for creating scalable Web applications — provide a solid platform for delivering outstanding value to enterprise customers.

#### Capitalizing on the Web

As the Internet economy builds momentum and enters the Web 2.0 phase, the operating system has suddenly become more important than ever. Yet few operating systems combine the fundamental features, support for Web applications and services, and forward-thinking approach necessary when these Web-based services become wildly successful. Moreover, many operating systems rely on expensive licensing and support schemes; they lack support for affordable, off-the-shelf hardware; and they do not provide a comprehensive framework for developing Web applications. So what is the alternative?

#### Sun offers a better way

Sun provides developers and systems administrators with a superior alternative to competitive solutions for building and deploying Web services and applications. Using the Solaris 10 OS plus Sun’s optimized Apache,

MySQL, and PHP/Perl/Python stack (Solaris OS + AMP), companies can easily develop and test AMP-based applications; and they can deploy them faster and more efficiently than by using other platforms, proprietary or open-source. By leveraging the following five easy steps — Sun’s “recipe for success” guideline — businesses can get their AMP-based Web tier applications up and running quickly and affordably while taking advantage of Sun’s multiple levels of assistance and support.

#### Start with the Solaris 10 OS

The Solaris 10 OS provides a robust platform designed to quickly deploy Web applications; address today’s critical security, compliance, and business continuity issues; and do so at a lower cost while supporting more hardware platforms and open-source software solutions than any other OS today. Advanced features such as Predictive

Self-Healing, clustering, and disaster recovery options help ensure superior reliability and availability of Web applications. Additional availability and security features such as Solaris Containers offer complete fault and security isolation, and Process Rights Management provides comprehensive control over users and access rights. These proof points and others underscore why the Solaris 10 OS is the strategic choice for deploying Web services quickly, securely, and within compliance.

### Build using Sun optimized AMP

The Sun AMP stack for the Solaris 10 OS provides developers with the open-source, standards-based software solutions most commonly used today for Web tier application development. Using these popular applications and languages, developers experience exceptional system performance, gaining performance improvement from 30 percent up to three times compared to other standards-based solutions, depending on the application and workload. And with Sun, they avoid the limitations inherent in using proprietary hardware products.

### Choose from a range of development tools

Today's businesses need powerful tools that take the pain out of the development life-cycle and help them deploy Web applications and services fast. Sun offers comprehensive tools, including a complete, integrated environment for development and deployment, with a binary application guarantee to decrease development time and expenses. Sun CoolTools for Web tier optimization enable users to seamlessly optimize Web tier environments by using the Solaris OS and

Sun Fire™ servers. Additional options include compilers, command line tools, and an award-winning NetBeans™-based integrated development environment (IDE) for application development, debugging, performance analysis, and optimization.

### Select the right system for the job

With the Solaris OS + AMP solution, companies have the flexibility to choose the hardware platform that best suits their business needs. The free, open-source Solaris 10 OS runs on the broadest number of x86/x64 and UltraSPARC® processor-based systems, including more than 750 x86/x64 Intel® Xeon® and AMD Opteron™ processor-based platforms. Sun's extensive systems-based portfolio offers a server for any application need, from eco-friendly, innovative Sun Fire CoolThreads servers to performance-optimized Sun Fire x64 systems. These powerful servers are the industry's most energy-conserving and space-efficient platforms. In fact, with Sun Web tier products, businesses can reduce power consumption by up to 80 percent<sup>1</sup> and space requirements by as much as 75 percent<sup>2</sup>, while delivering superior application availability more quickly to more users.

### Get support

Sun support starts in the very beginning, when the Solaris Express Installation Check Tool scans hardware and determines the best level of assistance. Throughout the development process, users can get help via the Sun Developer Expert Assistance service, an online support offering that provides answers for code support, diagnostic advice, and programming questions. This affordable program, available on a per-incident

### Learn More

For more information, visit [sun.com/samp](http://sun.com/samp), or contact your local sales representative.

or annual subscription basis, is open to all developers and can save companies as much as two thirds<sup>3</sup> of ongoing support costs.

### A trusted partner

Sun understands the need for building a solid Web tier infrastructure and has a long track record of providing solutions designed for the job. With the award-winning Solaris OS + AMP solution, industry-leading hardware, and proven expertise offered by Sun, today's businesses can rapidly implement open-source, Web-based applications and services and establish an immediate presence online.

<sup>1</sup>The Sun Fire™ T1000 server's 300 W power supply compared to the Dell PowerEdge 6850 power supply.

<sup>2</sup>The Sun Fire T1000 server is 1 rack unit (RU) versus IBM p520's 4 RU.

<sup>3</sup>Basic Red Hat Linux service price: \$349 per CPU; Sun basic service price: \$120 per processor socket; [https://www.redhat.com/apps/commerce/open/chart\\_server.html](https://www.redhat.com/apps/commerce/open/chart_server.html); [sun.com/software/solaris/popup.jsp?info=32](http://sun.com/software/solaris/popup.jsp?info=32)



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