



Zeus Load Balancer

High-performance load balancing for networked and web-enabled applications

Version 7.0

Zeus. Why wait...

High-performance, scalable load balancing from Zeus

Zeus Load Balancer is a powerful load balancer that grows with your traffic management needs. It is a cost-effective starting point for adding load balancing and resilience to your services, with a smooth upgrade path to scale as your services grow.

Zeus Load Balancer is a component of Zeus Elastic Application Delivery platform, and may be upgraded to the advanced Zeus Traffic Manager at any time.

Zeus Load Balancer can be deployed in the manner that best suits your needs: as software for Linux or Solaris servers, as a Virtual Appliance for VMware™, Xen or Oracle Virtualization platforms, and on supported Cloud infrastructure platforms such as Amazon EC2. Its rich capabilities bring greater flexibility and fine grained application control.

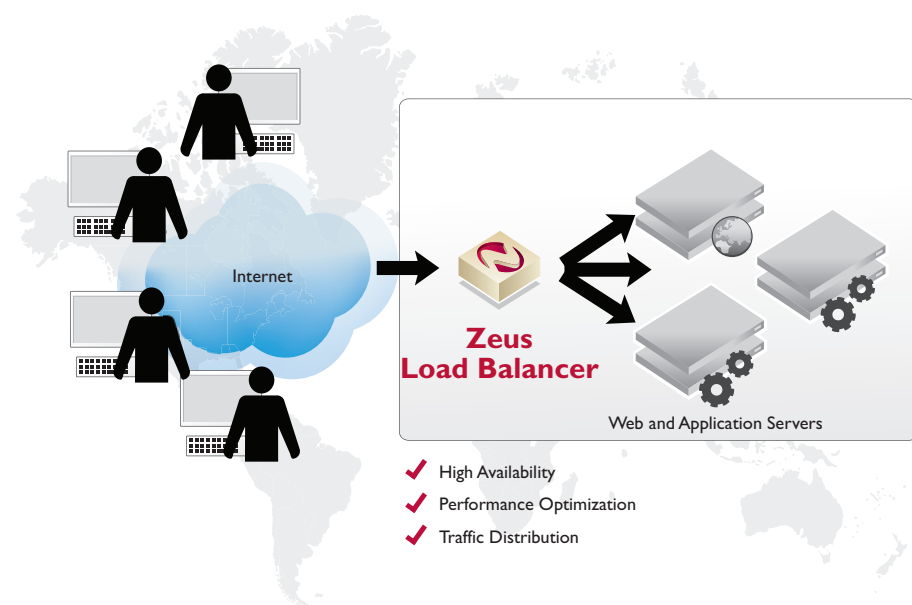
Resilient load balancing

Zeus Load Balancer allows you to create a fully fault-tolerant cluster of server machines by protecting against failures of back-end server nodes and front-end load balancer units.

Performance, reliability and scalability

Zeus Load Balancer improves the performance, reliability and scalability of networked and web-enabled applications through a combination of Secure Sockets Layer (SSL) and Wide Area Network (WAN) offload, content compression, performance and health monitoring, and automatic fail-over in the event of hardware or software failure. CPU-intensive processing such as SSL can be offloaded to free-up application servers such as Oracle WebLogic™ and IBM WebSphere™ to do their own specialist tasks, greatly enhancing their performance and your return on investment.

Zeus Load Balancer operation



- Zeus Load Balancer can be deployed in active/active clusters to protect you against hardware failures.
- Each load balancer monitors the health of its paired unit and each of the back-end servers.
- Incoming traffic is processed by Zeus Load Balancer.
- SSL Traffic is decrypted and re-encrypted if required.
- RuleBuilder™ rules are used to route each request to an appropriate server pool.
- The traffic is distributed across the server pool using the appropriate load balancing algorithm.

Manage your services

Zeus Load Balancer is deployed close to the servers it manages, making sophisticated load balancing decisions and closely monitoring the hosted services.

It can balance any User Datagram Protocol (UDP) or Transmission Control Protocol (TCP), including web, DNS, mail (SMTP/IMAP/POP), FTP and streaming media. The load balancing decisions maximize the responsiveness of the service and prevent any one application or server node becoming overloaded.

By working seamlessly with any networked application service, Zeus Load Balancer avoids expensive and complex integration and enhances existing infrastructures.

Performance improvements

Zeus Load Balancer is able to greatly improve the performance of your application services through traffic optimization and intelligent load balancing. It allows you to redirect traffic to specific sets of servers using content-aware routing policies, to take advantage of the capabilities of different applications and to reserve

capacity for premium customers. Zeus Load Balancer supports a wide range of session persistence methods.

Easy configuration with GUI Wizards and the RuleBuilder™

The Graphical User Interface (GUI) RuleBuilder makes it very easy to create load balancing policies to identify different types of traffic and handle them accordingly.

Wizards facilitate common administration tasks, such as creating services and draining groups of servers.

Connection draining

The unique “connection draining” capability lets you safely take a server out of service for maintenance, without interrupting any user connections or sessions.

Cost-effective SSL processing

The Zeus high-performance SSL technology assures end-to-end security of your services.

Detailed health monitoring

The Zeus Load Balancer health monitors check the availability and correct operation of the services on the nodes, routing traffic away from nodes that have failed. A wide range of built-in health monitors and the ability to run custom health scripts means that any server failure – including embedded error messages and failures of related services – can be detected, raised to the attention of the administrator and worked around whenever possible.

Visualization, diagnosis and remote management

Zeus provides you with real-time charting and historical trend graphs of the activity of your applications from a single user interface.

You can plan for future capacity changes and use the comprehensive diagnostics to aid fault isolation, reducing the time to fix. Statistical data gathered by Zeus Load Balancer can be retrieved using Simple Network Management Protocol (SNMP) or Simple Object Access Protocol (SOAP) for easy integration into existing network monitoring infrastructure.

Zeus’ standards based SOAP API and Zeus’ CLI interfaces enable remote management and integration with datacenter orchestration tools.

Easy and cost-effective upgrade path

Zeus Load Balancer is suitable for small organizations with simple traffic management needs and can be cost-effectively scaled as your needs grow. Zeus Load Balancer can be upgraded via a license key change to the Zeus Traffic Manager application delivery solution, without any downtime or interruption of service. Zeus Traffic Manager provides additional visualization, control and management functionality, along with Zeus’ powerful TrafficScript™ traffic management language.

Find out more

Further information, deployment examples and solutions can be found at www.zeus.com.

To evaluate Zeus Load Balancer, please visit www.zeus.com.

Key features and benefits

Zeus Load Balancer is a multi-capability solution combining:

- **RuleBuilder™** for making content-aware load balancing and routing decisions
- **Server load balancing** providing Layer-7 traffic management for all applications
- **Application acceleration** for enhanced ROI on new and existing deployments
- **High performance SSL decryption and re-encryption** for end-to-end security
- **HTTP content compression** for improved performance and bandwidth savings
- **Active/active resilience** to protect against hardware failures
- **Multiple session persistence modes** to ensure session integrity
- **Service protection policies** for hardening of vulnerable application services
- **Connection concurrency control** to prevent overload of vulnerable servers
- **Comprehensive traffic visualization** for trend analysis and fault isolation
- **Server health monitoring** to detect and route around problem servers
- **Secure web-based UI** for advanced cluster diagnosis and troubleshooting
- **Unlimited content inspection of TCP and UDP protocols** for greater application awareness.

Zeus software enables our customers to create, manage and deliver exceptional online services. Our software technology runs across Physical servers, Virtual machines and Cloud-based infrastructure.

Deployment options

Software

Run Zeus software on the Physical or Virtual server platform of your choice:

- Recommended: 2 GB RAM; 50 GB disk space; Intel Xeon/AMD Opteron/Sun SPARC; Dual 1Gbit or 10Gbit NICs
- 32-bit and 64-bit UNIX/Linux platforms: Linux, Solaris.

Optional features:

- IP Transparency and multi-hosted IP addresses are not available on Solaris software.

Virtualization

Run Zeus Load Balancer Virtual Appliance on VMware Virtual Infrastructure, VMware vSphere, XenServer and OracleVM. Run Zeus software on the Virtualization platform of your choice.

Cloud

Run Zeus Load Balancer software on any supported Cloud infrastructure, including Rackspace Cloud, Joyent and Amazon EC2.

Zeus at a glance

Zeus software enables our customers to create, manage and deliver exceptional online services in Physical, Virtual and Cloud environments. Implementing a Zeus solution allows organizations to visualize and manipulate the flow of traffic to their web-enabled applications, ensuring a consistently robust web infrastructure.

Zeus powers over one million website infrastructures across the world including, the BBC, BT, Comic Relief, Domino's Pizza, Gilt Groupe, ITV, I Want One of Those, Play.com, See Tickets, STA Travel and Virgin Media.

For further information, please email: info@zeus.com or visit www.zeus.com to contact the Zeus office nearest to you.

WHY WAIT...DOWNLOAD A FREE SOFTWARE TRIAL

Because Zeus Load Balancer is pure software, you can download it free of charge and evaluate it before you buy. Technical support is also available during your evaluation.

Web: www.zeus.com

Blog: blog.zeus.com

Twitter: twitter.com/ZeusTechnology



Zeus Technology Limited (UK)

The Jeffreys Building
Cowley Road
Cambridge CB4 0WS
United Kingdom

Sales: +44 (0)1223 568555

Main: +44 (0)1223 525000

Fax: +44 (0)1223 525100

Email: info@zeus.com

Web: www.zeus.com

Zeus Technology, Inc. (U.S.)

1875 South Grant Street
Suite 720
San Mateo, California 94402
United States of America

Phone: 1-888-ZEUS-INC

Fax: 1-866-628-7884

Email: info@zeus.com

Web: www.zeus.com