



## jetNEXUS Enterprise Load Balancer

ADVANCED APPLICATION LOAD  
BALANCING & TRAFFIC MANAGEMENT



### High Performance, Scalable load Balancing

The jetNEXUS Enterprise Load Balancer is a powerful, fully fault tolerant and high performance load balancing solution for clustered network services and mission critical applications.

The jetNEXUS Enterprise Load Balancer offers the functionality, resilience and flexibility previously only found in the most expensive appliances. The Rulebuilder™ traffic management feature enables clients to intelligently manage, optimize and secure networked application traffic from one central point.

### jetNEXUS Enterprise Load Balancer

- *Layer 7 Load Balancing*
- *RuleBuilder Traffic Routing Tool*
- *Application Acceleration*
- *SSL Offload*
- *Powerful Content Caching (optional)*
- *HTTP Compression*
- *Server Health Monitoring*
- *Secure, Web Based GUI*



The jetNEXUS Enterprise Load Balancer provides scalable, high-performance load balancing and traffic management capabilities, for resilient and optimised application delivery

### Application Compatibility:

- Ecommerce
- ECRM
- ERP
- Content Management
- email
- Custom Web Applications
- Portals
- Intranets

### ELB Features

- Layer 7 load balancing
- Content caching (optional)
- Content compression
- Connection management
- Application acceleration
- Active/Active resilience
- SSL offload
- RuleBuilder intelligent routing engine
- Server monitoring
- Intuitive user interface
- Reporting / logging
- Traffic visualisation

### Deployment Options

The jetNEXUS ELB can cost-effectively scale to meet business growth.

The ELB can be upgraded to the jetNEXUS Enterprise Traffic Manager via license key change without causing downtime or interruption to service delivery.

### Key Benefits

With content aware traffic management rules, flexible health monitoring, SSL and content compression, the jetNEXUS Enterprise Load Balancer (ELB) provides an easy to use and cost effective path to add load balancing intelligence to your organisation.

### Resilient Load Balancing

If a server goes down, you need to know your websites and applications will keep running. Deploying a fault tolerant cluster of jetNEXUS ELB's ensures sufficient redundancy in your server farm and delivers protection against hardware failures.

Using floating Traffic IP addresses, jetNEXUS ELB's receive traffic and each load balancer in a fault tolerant pair, monitors its partner and protects against failure of back-end service nodes. If one machine were to fail, the other balancer takes over. Similarly, the jetNEXUS ELB handles server failures by redirecting traffic to a different, healthy machine when:

- It cannot connect to the back-end
- The back-end unexpectedly closes the connection
- The back-end fails to respond to the connection

If any of these conditions occur repeatedly, the jetNEXUS ELB will stop sending traffic to the back-end machine, mark it as 'dead' and raise an alert to the systems administrator. In time it will speculatively send traffic to the failed machine and if it does respond, jetNEXUS ELB will gradually reintroduce the server back into the cluster.

### Application Acceleration

The jetNEXUS ELB dramatically improves the performance and scalability of application services through a combination of **SSL Offload**, **content compression**, **performance and health monitoring**, and **automatic fail-over** in the event of hardware failure.

- 🔗 **SSL Offload** - by processing SSL traffic, the jetNEXUS ELB frees up application servers to spend more time performing their own specialist tasks.
- 🔗 **WAN Offload** - by accelerating and condensing the number of incoming connections, jetNEXUS ELB enables your application to handle more requests with fewer connections.
- 🔗 **Content Compression** - by compressing content before it is sent to clients, jetNEXUS ELB reduces the burden on your networking infrastructure, thus optimising service delivery.

### Greater Capacity

The ELB's unique process architecture ensures it can handle more transactions, more content inspection rules, more application services and more back-end servers. Its price:performance ratio surpasses all other load balancer solutions available on the market.

## Key Features

### Ease of Use

- Secure, resilient, web based GUI including wizards to simplify common tasks
- Simple fast deployment with automatic detection
- Fully customisable active application monitoring
- SNMP support for easy integration into existing monitoring systems

### Flexible Configurations

- Group related back-end servers into named pools
- Define traffic management parameters and actions on per-pool basis
- Vast choice of back-end fail over configurations and actions
- Straight forward back-end application partitioning for performance improvement of large-scale application server deployments.

### Load Balancing Rules

- Intuitive traffic inspection, manipulation and routing rules
- Visual UI (Rulebuilder) provides wizards for simple rule creation and configuration
- Translates business policies into traffic management actions
- Rules are stored in the catalogue for easy deployment to multiple servers

### Server Load Balancing

- Layer 7 Load Balancing
- Selectable load-balancing algorithms and parameters including: round-robin, least connections, fastest response time, perceptive
- Connection draining for removing servers from cluster non-disruptively

### Failover and scalability

- Resilient active-active and active-standby pairs
- Re-route requests away from overloaded or unavailable servers for uninterrupted service delivery
- Pre-defined and customisable per-service, per pool and per-machine fail over actions for protection from hardware failures
- Pool prioritisation ensures there is always enough capacity to service demand

### Session Persistence

- Wide choice of pre-defined and customisable stateful session persistence methods
- Full support for HTTP, SSL and protocol independent specific sessions
- Automatic detection when session persistence is needed and dynamically sets up cluster aware persistence.

### Application Acceleration

- Unique connection handling takes load away from back-end servers and applications for optimised performance
- Accelerates application servers by as much as 10x
- On the fly content compression applied to any compressible content type

### Performance and Health Monitoring with Service Protection

- Customisable, real-time traffic visualisation and performance monitoring with threat analysis reporting and alerting
- Recovered servers automatically and gradually re-introduced
- Takes account of server and application performance in routing decisions
- Access restrictions for specific IP addresses and extensive, configurable, attack logging

#### jetNEXUS

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jetNEXUS provide innovative, market leading solutions for application acceleration, load balancing and application delivery technology. jetNEXUS solutions improve the performance, scalability, reliability and manageability of applications. Our product portfolio is accessible to a wide and varied client base, ranging from simple, cost effectively focused solutions to Enterprise-grade application delivery controllers.