

Features	Functions	Benefits
<b>Server Load Balancing</b>	Layer 4 - 7 load balancing	Operating at the application protocol level increases functionality, delivering features such as URL switching, cookie based persistence and request scanning.
	Slow-start server re-introduction	
	Customisable server too busy page	This content-aware load balancing strategy enables application performance optimisation and resilience across the application layer.
	Automated per-channel fast failover	
	High availability deployment	Deploying the jetNEXUS ELB in a high availability pair eliminates any single point of failure and guarantees uninterrupted service delivery.
	Connection Draining	
<b>Load Balancing Methods</b>	Round robin	Traffic is distributed across client's server pool via multiple load balancing strategies for maximum flexibility in deployment.
	Least number connections	
	IP sticky	
	Cookie sticky	Application cookie sticky method uses existing application cookies for session persistence.
	Fastest response time	
	Application cookie sticky	
<b>Session Persistence</b>	Pre-defined and customisable methods	Persistent load balancing methods for session based applications including ecommerce. Automatic session detection dynamically sets up cluster-aware persistence.
	HTTP and SSL specific persistence modes	
	Auto session detection for cluster-aware persistence	
<b>Server Health Checking</b>	Ping server health check	The ELB continually monitors the health and status of servers to detect and route around problem servers – from simple ping and TCP tests to full web GETs.
	TCP connect server health check	
	Simple HTTP server health check	Automatic failover to enable clients to deliver a seamless and fully fault-tolerant service delivery platform. Recovered servers are automatically and gradually reintroduced.
	Full HTTP server health check	
	Full fault reporting for failed transactions	
<b>Service Protection</b>	Web worm, DoS and DDos protection	Limiting of client concurrent connections and connection rates protects servers against Denial of Services and Distributed Denial of Service attacks.
	Real-time attack monitoring and threat analysis	
	Per-service access controls	Server Concurrency Limiting prevents server overload and provides optimal request distribution.
	Policy-based request filtering	

	Connection limiting	Heuristics protect against malformed URL attacks, buffer over-run attempts and invalid HTTP requests IP black-and white-lists for basic access control policies.
	Real-time attack monitoring and threat analysis	
	Configurable attack logging	
<b>SSL Termination</b>	High performance SSL offload	SSL Offload removes the overhead of CPU intensive encryption from the web servers to minimise the performance impact on the server pool.  This optimizes server performance and enhances the end user experience. The ELB has high performance software SSL stack optimized for x86 and SPARC processors. SSL decryption and back-end encryption delivers end-to-end security.
	Native SSL decryption	
	Over 8,000 tps	
	SSL re-encryption to back-ends	
	Centralised certificate management	
	Ability to create self signed cert	
<b>Management</b>	Active-Active failover configuration	Secure, resilient web-based GUI with wizards to simplify common tasks. Tools for easy management and flexible configuration and changes.  SOAP API for remote and automated management.  Simple, fast deployment with jetNEXUS Discovery Tool for automatic detection.  Integration with enterprise authentication services for administration.  Catalogs for easy storage and re-use of common configuration.  Performance monitoring with customizable real-time analysis and traffic visualization and trending for intelligent management.
	Connection proxy capability	
	Secure web based interface	
	SNMP (V1,2 &3)	
	Online configuration file back up	
	Software updatable via GUI	
	Command line interface CLI	
	Email alerting and real time stats	
	DNS resolution	
	Dedicated management interface	
	Optional client IP x forwarding	
	W3C web transaction logging & file offload	
	SOAP API	
<b>Content Acceleration</b>	Dynamic HTTP compression	Compressing content before it is sent to clients helps to reduce the burden on the networking infrastructure. On-the-fly content compression is applied to any compressible content type by the jetNEXUS ELB.  Rule based compression improves performance and delivers bandwidth savings.
	Content exclusions – by rule	
	Configurable compression	
	Personal firewall compression	

	Browser rule base compression	
	Point to point compression-decompression	
	Streaming compression	
<b>Connection Management</b>	Connection management	Optimises the performance of TCP/IP and manages stress on web servers. Key to high performance load balancing.
	Connection pooling	
	Connection capping/limiting	
<b>RuleBuilder</b>	GUI-based traffic management rules	Create bespoke traffic management rules for easy and intelligent service management.
	Content-based traffic routing	
	URL, HTTP header and HTTP cookie rewriting	Rules are stored in the catalog for re-use and easy deployment to multiple virtual servers.
	Rules are stored in the Catalog for re-use	

Optional Feature	Functions	Benefits
<b>Content Caching</b>	GUI based cache control rule base	jetNEXUS ELB cache stores common responses to web requests on behalf of the web server. Content caching thereby reduces server load and bandwidth consumption and accelerates applications.
	Multiple caching profiles	
	Configurable expiry	
	Cache hit reporting	
	Auto management of page variants	High-speed in-memory caching may be optionally backed by high-capacity solid-state disk-based caching for less frequently requested content. The ELB caching feature is easy to configure with multiple caching profiles.
	Identify anomalies and faults	
	Full visibility of client-server interactions	