

jetNEXUS Global Load Balancer jetNEXUS GLB Version 2.1

Global Server Load Balancing for business continuity & improved performance



Rich and Powerful Global Server Load Balancing

jetNEXUS Global Load Balancer is a powerful, standalone global server load balancing solution. It provides business continuity and improved performance by enabling failover and load balancing across globally distributed datacenters.

Many organizations locate their online services in multiple datacenters to get their content closer to their users and to improve resilience in the event of site attacks or datacenter failure.

jetNEXUS Global Load Balancer enables the transparent delivery of these services and applications from multiple datacenters.

It continually monitors the performance and availability of each of the services you run in the different locations. It manages user requests to access these services, intelligently directing each user to the most appropriate service point based on current performance, service availability and geographic proximity.



jetNEXUS Load Balancer manages all requests to access your service and directs each user to the most appropriate service point. The rich user interface gives a complete picture of where your users are located and which service point they are using.

With jetNEXUS GLB you will:

- › **Ensure Business Continuity** in the event of a site attack, datacenter failure or unplanned maintenance.
- › **Place your services closer to your users**, giving them a faster, more reliable service and a better overall experience
- › **Improve datacenter utilization and efficiency** by load balancing traffic towards datacenters with spare capacity as user volumes move throughout the day
- › **Reduce system administration risks** by draining traffic away from services in a datacenter before planned maintenance
- › **Obtain a clear picture of activity** where your users are located and which datacenters they are accessing.

jetNEXUS GLB is a standalone Global Server Load Balancing device that functions equally well with any vendor's load balancing or network infrastructure.



- › jetNEXUS Global Load Balancer directs them to the closest, best performing datacenter.
- › When a user requests a service, jetNEXUS Global Load Balancer directs them to the closest, best performing datacenter.
- › Users are never sent to datacenters that have failed.
- › Active – passive failover gives controlled transfer of traffic from one datacenter to another in the event of failure.
- › Datacenter draining makes it easy to take a datacenter offline.

DNS-based global server load balancing

jetNEXUS Global Load Balancer works alongside the existing DNS infrastructure, managing and rewriting DNS responses to control which datacenter a user is directed to.

jetNEXUS Global Load Balancer is simple to install and test. All DNS records remain on the DNS servers so very little configuration or operational disruption is incurred when installing jetNEXUS Global Load Balancer. The powerful visualizations give clear indications of the effectiveness of the global server load balancing operation.

Load balancing and failover modes

Active – passive failover with optional “no-fail-back” is ideal for disaster recovery purposes and applications that cannot be run simultaneously in different locations. Load balancing and geographic proximity improve site performance and datacenter utilization, reduce bandwidth usage and still ensure resilience against catastrophic datacenter or service outages.

Service and datacenter draining

Draining lets an administrator easily take a service or datacenter offline for planned maintenance, without disrupting ongoing user traffic.

Flexible high-availability configurations

Cluster scalability allows the deployment of multiple active jetNEXUS Global Load Balancers in a datacenter, eliminating single points of failure and ensuring that your deployment can grow in-line with your business needs. Performance scales linearly for easy capacity planning.

Comprehensive health monitoring

A catalog of pre-built and configurable monitors can be used to observe the availability and correct operation of each service in each datacenter.

Multi-domain configuration

jetNEXUS Global Load Balancer manages traffic to multiple different groups of services, each with their own load balancing policies, datacenter locations and health tests.

Activity monitoring and diagnostics

jetNEXUS Global Load Balancer provides you with real-time reporting and historical graphs of your applications' activity via a web-based interface and SNMP. Full global load balancer logging records each load balancing decision for detailed analysis.

Combined with one-click self-diagnostics, you can identify usage trends and isolate faults rapidly, reducing the time to fix.



jetNEXUS GLB Key features and benefits:

- **Manages DNS lookups** – reliable and fully standards compliant.
- **Easy to install** – works with existing DNS servers, with minimal reconfiguration.
- **Available as software or as a hardware appliance** for maximum choice.
- **Complete service health monitoring** continually tests services for availability and correct operation with a range of pre-built and configurable tests.
- **Active – passive failover** with optional “no-fail-back” for controlled transfer of services from one location to another.
- **Load balancing methods** (not available in Disaster Recovery version):
 - **Datacenter load balancing based** on observed performance.
 - **Geographic proximity** routes each user to the closest datacenter.
 - **Adaptive load balancing** routes users based on proximity and datacenter load.
- **Sophisticated visualization** displays the effectiveness of the configuration.
- **Activity monitoring and self-diagnostics** for trend analysis and fault isolation.

Product versions

jetNEXUS Global Load Balancer is available in two versions.

The “Disaster Recovery” version is suitable for organizations that require business continuity in the event of datacenter failure. For each service, one datacenter is active at a time; if the service fails, jetNEXUS Global Load Balancer sends users to the next available datacenter.

The full jetNEXUS Global Load Balancer product adds load balancing and geographic proximity. Multiple datacenters may be active at the same time for each service and jetNEXUS Global Load Balancer sends each user to the datacenter that is responding fastest and is closest to that user.

| jetNEXUS Global Load Balancer | |
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| Processor | Intel Xeon Quad Core 2.66 GHz CPU(s) |
| Memory | 4GB DDR2 RAM |
| Disk | 160GB 7200 RPM SATA HD |
| Power Supply | 100 – 240 V 100W |
| NICs | 4 Intel PRO 10/100/1000 NICs |
| Form Factor | ½ U Appliance |
| Weight | 6.4kg (14lbs) |
| Dimensions (WxHxD) | 427 x 43 x 356 mm |
| Operating Temperature | 10-35°C (50-95°F) |
| Hardware Warranty | 12 months return to base |
| Performance | Manage over 65,000 DNS requests per second |

Find Out More:

To evaluate the jetNEXUS Global Load Balancer, please visit: www.jetnexus.com or call **0870 382 5050**.

About jetNEXUS:

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.