

jetNEXUS Load Balancer

For Fast, Scalable,
Resilient Applications



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Our business is always growing, and as such we're likely to add more off-site servers for greater capacity and resiliency.

jetNEXUS will enable us to expand our requirements both quickly and cost effectively.

Addison Lee

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jetNEXUS is simple to use, extremely scalable and comes at the right price point, all of which make it a great fit for us.

COLT

Introduction

The jetNEXUS load balancer is powerful, feature-rich and cost-effective, giving you the comprehensive tool-set **you** need for the application delivery challenges **you** face.

Featuring complete Layer 7 functionality, Reverse Proxy connectivity, powerful SSL Offloading and rich traffic manipulation capabilities, jetNEXUS gives you the edge.

With an intuitive GUI, automatic-configuration for key applications and a focus on ease-of-use, jetNEXUS delivers a simple, supportable, scalable solution.

About jetNEXUS

jetNEXUS is passionate about building good value, high performing load balancers that are easy to use and deliver real results.

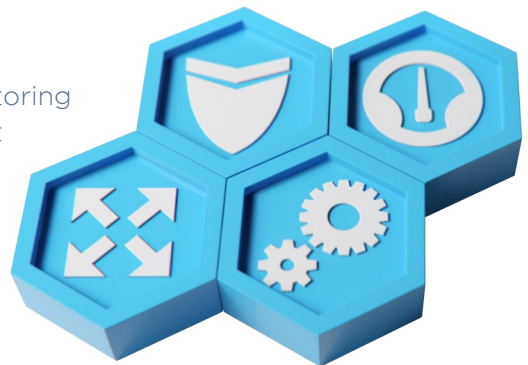
jetNEXUS is exclusively focused on developing advanced load balancers that optimise the availability and performance of applications and we take great pride in supporting our load balancing deployments around the world.

Features

Our ethos is simple; deliver the features that customers need at a fair price. We don't bury our features in impenetrable code, we present them simply and effectively to ensure our clients have a feature-rich load balancer that they can actually use.

Highlights

- Layer 4- 7 Load Balancing
- Advanced Server Health Monitoring
- Intelligent Traffic Management
- Automatic Configuration
- Reverse Proxy
- SSL Offload
- Web Acceleration
- Clustering





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Having technically reviewed the solutions available in the market place, we felt that jetNEXUS hit all the functionality of the big players, at a very reasonable price point for the feature set available.

UNITE

Easy to Deploy, Configure, Manage and Support

jetNEXUS has an intuitive GUI which makes configuration a fast, painless experience for experts and novices alike.

“The jetPACK deployment template meant that the system was up and running within minutes rather than hours; ensuring minimal impact on business operations.”

Addison Lee

Tried, Tested, Certified

jetNEXUS has experience across a broad range of applications and an intimate understanding of their individual requirements. From household names like Exchange and Lync to specialist applications like Electronic Patient Record Systems or E-Learning platforms like Moodle and Blackboard, and not forgetting complex web hosting.

Among the Applications jetNEXUS is Certified for are:



jetNEXUS Load Balancers can be deployed as either dedicated, physical **hardware appliances**, as flexible, **virtual appliances** or an **ISO software image** for industry standard x86 platforms.

Whether hardware or virtual, jetNEXUS devices are functionally identical, so your choice of platform can be determined entirely by the requirements of your environment.

jetNEXUS doesn't impose any licence capping on SSL transactions.

Introducing User Central

[jetNEXUS User Central](#) is a one-stop knowledge base for everything jetNEXUS. Discover how to deploy and configure jetNEXUS in minutes & troubleshoot support issues with ease.



Tech Specs	ALB-X E4	ALB-X E5
Chassis	1U Half Depth	1U Full Depth
CPU	Quad-Core	Dual Hexa-Core
Memory	8 GB	12GB - 64GB
Network Interface	4 x 1 GbE	4 x 10 GbE
Power Consumption	71W to 100W maximum	200W to 300W maximum
HTTP Max Throughput	4 Gbps	10 Gbps or 20 Gbps
Layer 7—HTTP Requests Per Second	120,000 rps	200,000 rps
SSL Transactions Per Second**	Up to 6000 tps	Up to 10,000 tps*
Weight	9 kg	21 kg
Dimensions	43.7 cm width x 4.3 cm height x 35.6 cm depth	43.7 cm width x 4.3 cm height x 70.5 cm depth

*With hardware acceleration ** Not limited by licence

Features

SERVER LOAD BALANCING

Layer 4 - 7 Load Balancing
 Layer 7 Application Persistence (aka. Persistence / Sticky Sessions / Cookie Based)
 Reverse Proxy
 Layer 7 Content Switching
 Active - Passive High Availability Mode
 Active - Active High Availability Mode
 Cross Data Centre Redundancy
 N+X Clustering
 Connection Draining
 Standby Server (aka Server of Last Resort)

LOAD BALANCING METHODS

Least Connections
 Round Robin
 IP Bound
 IP List Based
 Cookie Based
 Customisable Cookie
 Classic ASP Session Cookie

ASP.NET Session Cookie
 JSP Session Cookie
 JAX-WS Session Cookie
 PHP Session Cookie
 Weighted Round Robin
 Weighted Least Connections

SERVER HEALTH CHECKING

Customisable Health Checks
 Simple HTTP
 Full HTTP (Layer 7)
 TCP Connect
 Out of Band Monitor
 DICOM
 RDP
 Ping

NETWORKING

VLAN Support
 Single or Multi Interface Configuration
 Choice of Interfaces (from 4x1GbE up to 4x10GbE or 8x1GbE)
 Support for S-NAT, NAT and PAT
 Static Routing With Default Gateway



Unrestricted Interfaces (*Virtual*)
High-Performance Virtual Network Drives (*Virtual*)

LINK INTERFACE BONDING

802.3ad
Round Robin
Active / Passive
Broadcast
Adaptive
Transmit
Balance-XOR

CONNECTIVITY METHODS

Reverse Proxy
High Performance Layer 4 Load Balancing
Direct Server Return
Transparency

SSL

High-Performance, Unrestricted SSL Offload
Easy-To-Use SSL Management
AES Hardware SSL Acceleration
SSL Pass-Through
SSL Re-Encryption
Certificate Signing Request (CSR) Generation and Renewal
Simple Certificate Import / Export inc PKCS12
Self-Signed Certificate Creation
Support For Multiple Keys Inc: 1024, 2048, 4096
Intermediate Certificate Support
Support for Server Alternative Names
Support for Wildcard SSL Certificates
SSL Certificate Chaining
Support for TLS 1.2
Customisable Ciphers

TRAFFIC MANAGEMENT

(flightPATH)

HTTP / HTTPS Traffic Manipulation
Intuitive, Simple To Use
Drag & Drop Rule Builder
Layer 7 Content Switching
Dynamic Routing
Content Filtering
Fully Customisable / Configurable
Pre-Defined Rule Base
Log and Alert
Geo Location
Selectable, Simple Match Conditions (inc does / does not: 'start with', 'end with', 'contain', 'equals')
or Powerful Regular Expression Engine

Examples:

Block IPs / Networks
Redirect to Secure Website
Rewrite URLs
Replace Sensitive Info (Blank Credit Card Details)
Browser Detection
Device Detection
Body Rewrite
Prevent SQL Injections
Prevent Cross-Site Scripting
Add Google Analytics
Redirect User Based on Country
Certified for Key Applications

ACCELERATION

Compression

Dynamic HTTP Compression
Configurable Rule Base

Caching

RAM-Based Caching with Disc Backup
Automatic and Configurable Client-Side Caching
Multiple Caching Profiles
Auto-Detect and Prioritise Popular Content
Simple Editing of Cache Rulebase
Fully Configurable via GUI

Connection Management

Connection Pooling / Multiplexing
Connection Limiting
Customisable Server Too Busy Page

MANAGEMENT & REPORTING

Secure Web-Based GUI
Selectable SSL Certificate & Secure Port
Automatic jetNEXUS Device Discovery
jetPACK Application Templates (Auto-Configuration)
Full SNMP Monitoring (V1.2 &3)
Configuration Back Up
Simple Software Update Via GUI
Command Line Interface (CLI)
Email Alerting
Real Time Stats
Client IP x forwarding (X-Forwarded-For)
Automatic Remote W3C Log Storage
Online User Central
Secure SSH & HTTPS for Remote Access Admin