



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

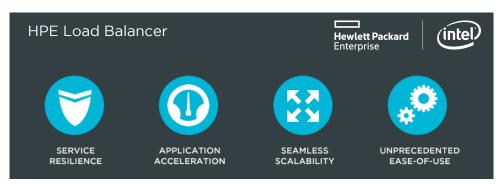
jetNEXUS will enable us to expand our requirements both quickly and cost effectively.

Addison Lee

Advanced Load Balancing Delivered on Leading HPE Servers

The HPE load balancer is powered by jetNEXUS Application Delivery Control technology to improve the performance, scalability and reliability of applications for a superb end user experience.

This powerful load balancer is feature-rich yet cost-effective, giving you the comprehensive tool-set you need to overcome real-world application delivery challenges.



Features

Functionality presented simply and effectively to deliver a feature-rich, supportable and scalable load balancer that is incredibly easy-to-use.

User Central

jetNEXUS User Central

is a one-stop knowledge base for everything jetNEXUS.

Discover how to deploy and configure jetNEXUS in minutes and troubleshoot support issues with ease.



Pre-Authentication



Layer 4-7 Load Balancing



Server Health-Checking



Reverse Proxy



SSL Offload



Global Server Load Balancing



Automatic Configuration



Web Application Firewall



Compression and Caching



Web Acceleration



Traffic Management



Clustering



Intuitive GUI



Unprecedented Ease-of-Use

Download a free trial of the jetNEXUS ALB-X software here



For Fast, Scalable, Resilient Applications





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

Tried and Tested for your Applications













jetNEXUS has experience across a broad range of applications and an understanding of their unique requirements. From household names such as MS Exchange and Lync, to self service websites and browser-based services, through to specialist applications like Electronic Patient Record Systems or E-Learning platforms like Moodle and Blackboard.

"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

Easy to Deploy, Manage and Support

Configuring HPE Load Balancers is a fast, painless experience for experts and novices alike and day-to-day management tasks are a breeze.





- Configure in minutes
- Intuitive user interface
- Real time status updates
- Drag and drop functionality
- GUI wizard & auto-complete
- Simple navigation

- Custom dashboards
- Configurable widgets
- Historical graphing

"jetNEXUS is extremely intuitive, requiring very little expert knowledge to get up and running yet there are a host of advanced features to enhance service delivery." digdat™



For Fast, Scalable, Resilient Applications



Platform Availability

jetNEXUS has an OEM partnership with HPE to deliver advanced load balancing and ADC (Application Delivery Control) technology on leading HPE servers.

Combining the innovative load balancing capabilities of jetNEXUS with the power and flexibility of HPE servers, this new agreement enables HPE customers to deploy a fully integrated, scalable and highly efficient hardware ADC solution to improve the performance, scalability and reliability of applications for a superb user experience.



Why HPE and jetNEXUS?

- Best-of-breed integrated solution
- All HPE stack
- Powerful solution for the most demanding workloads
- Unrivalled global support by HPE
- Outstanding performance
- Industry standard servers to guarantee resiliency for mission critical applications

Tech Specs	ALB-X H1	ALB-X H2	ALB-X H3-10	ALB-X H4-10
Chassis	1U Half Depth	1U Full Depth	1U Full Depth	1U Full Depth
CPU Cores - Hyper Threading - Threads - Processor Base Frequency - Max Turbo Frequency - Cache	4 Yes 8 3GHz 3.50 GHz 15 MB SmartCache	6 Yes 12 3.40GHz 3.70 GHz 20 MB SmartCache	8 Yes 16 3.20GHz 3.60 GHz 25 MB SmartCache	12 Yes 24 3.00GHz 3.50 GHz 30 MB SmartCache
Memory	8 GB	16 GB	16 GB	16 GB - 384 GB
Network Interface	2 x 1 GbE	4 x 1 GbE Optional 2 x 10GbE	4 x 1 GbE & 2 x 10 GbE	4 x 1 GbE & 2 x 10 GbE
Storage	80 GB SSD	120 GB SSD	120 GB SSD	180 GB SSD
Power Consumption	70W Peak	148W Peak	148W Peak	148W Peak
Power Redundancy	No	Yes	Yes	Yes
HTTP Max Throughput	3 Gbps	6 Gbps	10 Gbps	20 Gbps
Layer 7 - HTTP RPS	120,000 rps	130,000 rps	140,000 rps	150,000 rps
SSL Transactions Per Second*	Up to 2500 tps	Up to 5000 tps	Up to 5000 tps	Up to 5000 tps

^{*} Not limited by licence

Integrated Lights Out for Remote Management

The integrated lights out (iLo) functionality enables out of band remote management of the HPE Hardware.

- Superb support and remote troubleshooting functionality
- Remote fix and restore to daily backup configuration
- A replaced hard drive can be restored from an overnight backup remotely



For Fast, Scalable, Resilient Applications



Features

SERVER LOAD BALANCING

Layer 4 - 7 Load Balancing

Layer 7 Application Persistence (aka.

Persistence / Sticky Sessions / Cookie

Based)

Manual Server Weighting

Automatic Server Weighting

Reverse Proxy

UDP Full 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

Fastest Server

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 Health Check

DICOM

RDP

Pina

Multiple Server Health Checks Per Service

New HTTPS Health Check

Redis Health Check (via App Store)

DNS Health Check

Upload Custom Health Checks

Extra Setting for Custom Health Checks

NETWORKING

IPV6 Support

IPV6 > IPV4 Proxy

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)

Multiple DNS Server Support

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

GLOBAL SERVER LOAD BALANCING

(Additional Licence)

Disaster Recovery for your data centers

Active-Active:

Round Robin

Weighted

Geo-Location

Custom Location

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



For Fast, Scalable, Resilient Applications



Support for Server Alternative Names Support for Wildcard SSL Certificates SSL Certificate Chaining Support for TLS 1.2 Customisable Ciphers

Full Support for Server Name Indication (SNI)

Multiple Certificates Per Service for SNI

SECURITY

Web Application Firewall (Additional Licence)

Pre-Authentication

NTLM / Basic Support

Form or Basic Authentication

Single Sign On (SSO)

Microsoft TMG Replacement

Upload Custom Forms From GUI

Custom Login with Configurable Welcome Message

Authentication Protocol LDAPS Servers

Security Logging Login Timeout

Multiple Conditions

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

Tiot. Start With, Cha With, Contain, eque

Powerful Regular Expression Engine

Extract Response Cookie Value

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

CLOUD BASED SERVICES ***

Secure Interface From ALB-X to Cloud Services Check Cloud & Download for Software Updates

Check Cloud for Support

Check Cloud for Licence Information Check Cloud for New Security Rules

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

GUI and Configuration

Secure Web-Based GUI

Customisable Dashboard

Configurable Widgets

Automatic jetNEXUS Device Discovery

jetPACK Application Templates (Auto-configuration)

Clone Services

Auto Complete

Support for Slash Notation

Configuration Back Up

Software Updates

Check Cloud Service for Software Updates

Encrypted Software Updates

Simple Software Update Via GUI

Management and Monitoring

Selectable SSL Certificate & Secure Port

Full SNMP Monitoring (V1,2 &3)

Command Line Interface (CLI)

Email Alerting

Real Time Stats

Status Page with Live Individual Server Connections

Historical Graphing

Server Response Time Graphing

Additional Services CPU Management

Layer 4 Transaction Logs

Remote Syslog Server

Client IP x forwarding (X-Forwarded-For)

Automatic Remote W3C Log Storage

Secure SSH & HTTPS for Remote Access Admin

Online User Central Support

