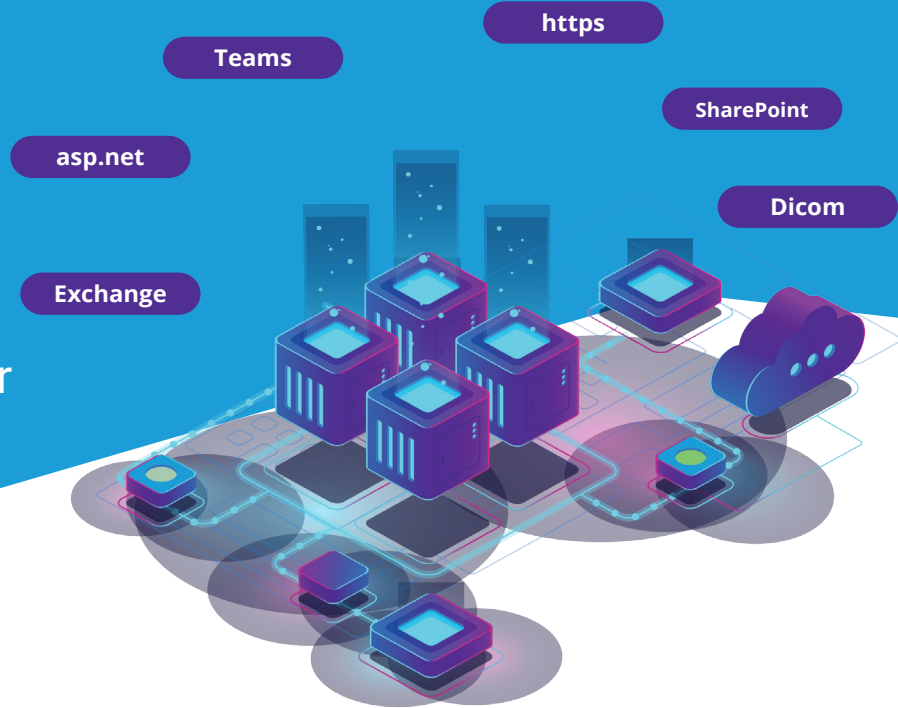


# Application Delivery Controller Load Balancer





Virtual | Cloud | Hybrid

















The EdgeNexus Application Delivery Controller is powered by the latest EdgeOS and delivers high-grade, reliable, and scalable Layer 4 and Layer 7 load balancing to SMEs and large enterprises alike.

The advanced functionality is aided and complemented by an easy-to-use, fully web browser-driven interface, ensuring that usage is kept 100% free of coding and hassle-free.

EdgeNexus is tested and battle-hardened with many key business applications, including Enterprise VPN solutions, remote desktop, email systems, medical scanning, to customised containerised application stacks.

|  |  |
|--|--|
| <br>Very easy to use  | <br>App Store             |
| <br>Easily scalable | <br>Simple to configure |

- |  |  |  |   |
|--|--|--|---|
|  Unprecedented Ease of Use |  Server Health Checking       |  Reverse Proxy                  |  Instant Clustering                  |
|  Web Acceleration          |  Layer 4/7 Load Balancing     |  SSL Offload & Re-Encryption    |  Pre-Authentication & Single Sign-On |
|  Automatic Configuration   |  Global Server Load Balancing |  flightPATH Traffic Management  |   |
|  Compression & Caching     |  Intuitive GUI                |  Web Application Firewall (WAF) |   |



# EDGENEXUS

## Application Delivery Controller Load Balancer



### DEPLOY ANYWHERE LOAD BALANCING

There are various platforms upon which users choose to deploy their applications. Some are on-premise, others are based in cloud infrastructure, some are physical, and others are visualization.

No matter where you wish to deploy, the EdgeNexus can work to deliver an outstanding application delivery experience, improving security, scalability, reliability, and the end-user experience.

The EdgeNexus is available to run on all the popular visualization platforms and HPE bare-metal servers using our certified image.

Installation and initial configuration of the EdgeNexus take just a couple of minutes, allowing you to create your first load balanced setup in less than 2 minutes.

We keep it easy and simple.

### VISUALIZATION



### CLOUD



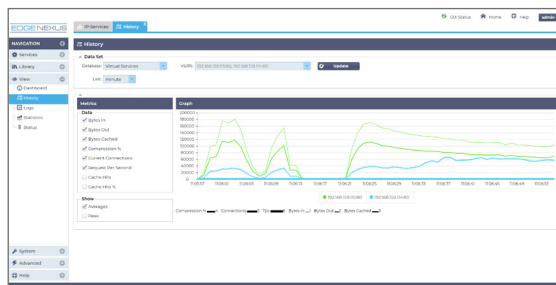
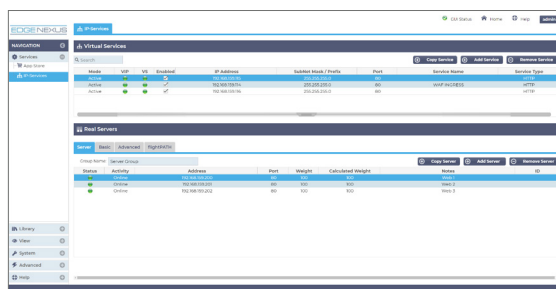
### HARDWARE



**Hewlett Packard  
Enterprise**

### TECHNICAL HEADLINES

- Install and configure in minutes
- Highly intuitive web user interface
- Drag and drop functionality
- GUI wizard with auto-complete
- In-built and custom health checks
- GUI driven flightPATH traffic management rules - 100% No coding
- Multiple predefined load balancing / persistence policies
- Layer 4 and Layer 7
- SSL Passthrough/Offload/Re-encryption with SNI
- Reverse Proxy/DSR/Gateway modes
- Microservices Containers for internal apps hosting - Cisco Duo, Let's Encrypt SSL, Dell-ECS, EdgeDNS and more
- WAF and GSLB options
- Pre-authentication and SSO





# EDGENEXUS

## Application Delivery Controller Load Balancer

### RUN APPS IN MICRO-SERVICES CONTAINERS

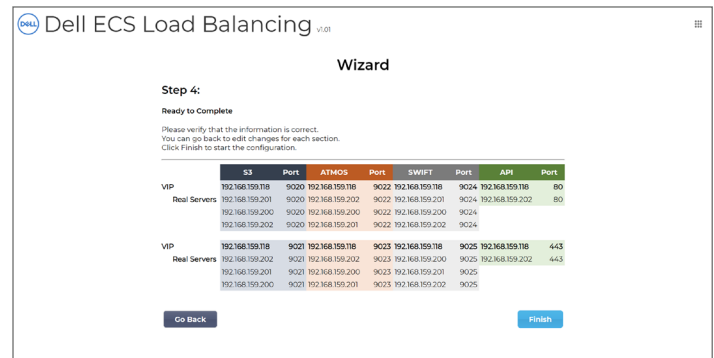
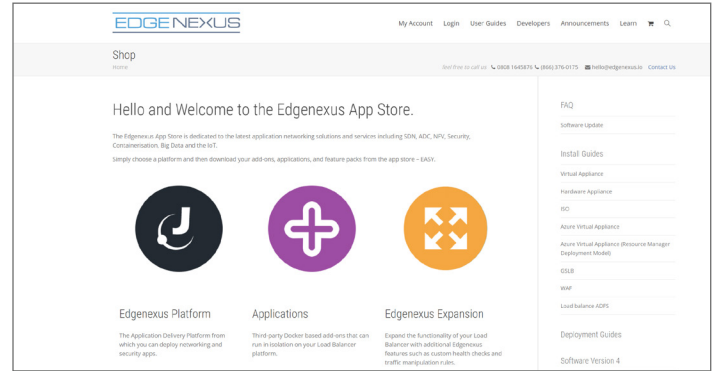
One of the unique features of the EdgeNexus is the ability to run applications on the platform.

A variety of Apps are available from the EdgeNexus App Store; many are free, while others provide you with the same affordable price points that EdgeNexus users enjoy.

When installed, apps operate highly securely and can seamlessly integrate with the host via the EdgeOS Rest API.

Apps currently available include the WAF, GSLB, Dell-ECS Configurator, Let's Encrypt SSL Manager, and more.

You can also deploy your own containerised apps to EdgeNexus' application delivery platform, thus future-proofing your investment.



### FLIGHTPATH - TRAFFIC MANAGEMENT ON-THE-FLY

One of the most powerful features of the EdgeNexus is flightPATH, a traffic management technology that allows you to manipulate and direct requests and responses on the fly based on easy-to-set-up conditions.

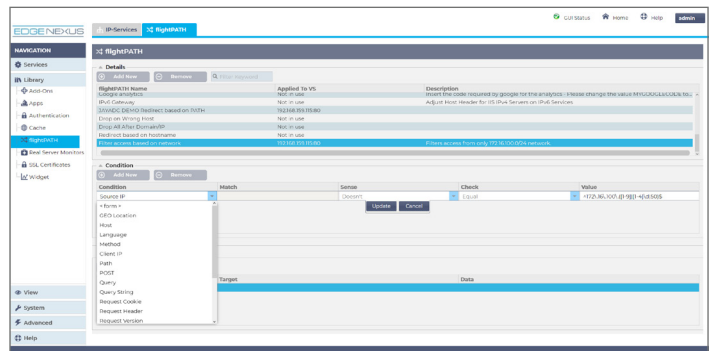
Examples of flightPATH rules include:

- Redirect users based on criteria such as hostname, geography or source IP
- Blank out credit card numbers
- Mask sensitive information
- Change the content of headers and cookies
- Automatically add content expiry dates
- Change the BODY content of pages based on criteria
- Redirect based on language
- Automatically insert the code for analytic such as Google
- Filter or redirect users based on the source network, etc. using REGEX

flightPATH rules can range from the sublimely simple to the most complex and are all authored without a single line of coding. Just use EdgeNexus' GUI to write and test your rules in real-time.

Allocation and deployment of flightPATH rules to virtual services is a simple drag-and-drop action, cementing the truly easy-to-use nature of the EdgeNexus.

And all of this and more, with ZERO coding.





## TECHNICAL SPECIFICATIONS

### 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
- Customizable 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

- Customizable Health Checks
- Simple HTTP
- Full HTTP (Layer 7)
- TCP Connect
- Out of Band Health Check
- DICOM
- RDP
- Ping
- 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 License)

- 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





### TECHNICAL SPECIFICATIONS

- Support for Server Alternative Names
- Support for Wildcard SSL Certificates
- SSL Certificate Chaining
- Support for TLS 1.2
- Customizable Ciphers
- Full Support for Server Name Indication (SNI)
- Multiple Certificates Per Service for SNI

#### SECURITY

- Web Application Firewall (Additional License)
- 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

#### flightPATH TRAFFIC MANAGEMENT

- HTTP / HTTPS Traffic Manipulation
- Intuitive, Simple To Use
- Drag & Drop Rule Builder
- Layer 7 Content Switching
- Dynamic Routing
- Content Filtering
- Fully Customizable / 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
- 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 EdgeNexus to Cloud Services
- Check Cloud & Download for Software Updates
- Check Cloud for Support
- Check Cloud for License 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 Priorities Popular Content
- Simple Editing of Cache Rule base
- Fully Configurable via GUI

##### Connection Management

- Connection Pooling / Multiplexing
- Connection Limiting
- Customizable Server Too Busy Page

#### MANAGEMENT & REPORTING

- GUI and Configuration
- Secure Web-Based GUI
- Customizable Dashboard
- Configurable Widgets
- Automatic EdgeNexus Device Discovery
- EdgeNexus 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



# Application Delivery Controller Load Balancer



## NEXT STEPS

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### Evaluating the EdgeNexus is easy.

#### On-Premise Evaluation

You can evaluate it within your own IT infrastructure by downloading and installing it on the visualization framework of your choice.

Navigate to the Celestix website and fill in the simple form to receive the download instructions and links.

#### In Azure

The second option is to use the Azure Test Drive free of cost and allows you to set up and test the EdgeNexus on Azure for a few hours.

Once you have tested the EdgeNexus in Azure, you can buy the license through your partner or Azure Marketplace.

**celestix**

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