EDGE NEXUS DNS

The Internet has formed the shape of our lives, and one of the core fundamentals of the Internet and, indeed, all networking systems is the Domain Name Resolution system, also referred to as DNS.
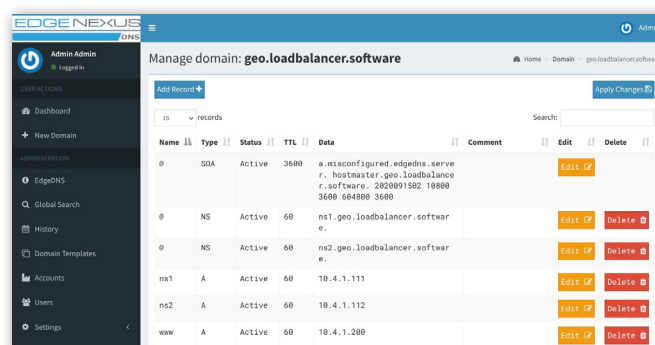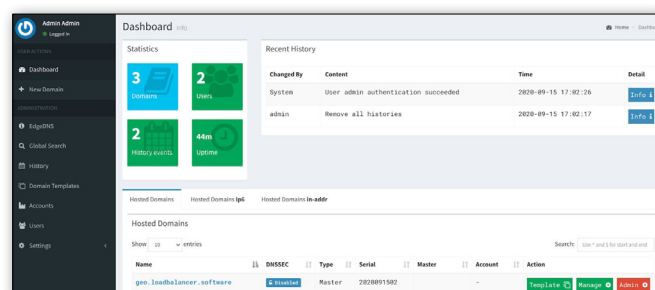
At Edgenexus, we believe in always bringing you the very best in technology, and our long-established load balancer and application delivery controller attest to this.

The latest addition to the Edgenexus product range is edgeDNS. Designed to reside within the Edgenexus Load Balancer or ADC, the edgeDNS system brings a highly sophisticated Authoritative DNS Server within the secured environment.

The edgeDNS, with its simple AppStore download and containerised installation process, ensures that the process evaluation and purchase are simplified. Once installed, it all becomes even more accessible.

The simple and easy to understand user interface is delivered by the Edgenexus load balancer, making it simple to configure and use, through a single pane of glass.

edgeDNS also conforms to the leading DNSSEC implementations and is used to host the majority of DNSSEC domains globally, ensuring standards are delivered.

Contact us about edgeDNS today!

In the UK: 0808 1645876
In the USA: (866) 376-0175
or email us: hello@edgenexus.io

Common features:

- IPv4, UDP/TCP
- IPv6, UDP/TCP, 100% compliant
- Remotely pollable statistics for real time graphing
- High performance
- SNMP statistics bridge (read only)
- Authoritative Server:
- MySQL, PostgreSQL, Oracle, Sybase, Microsoft SQL Server, LDAP, SQLite3
- Including replication
- Near-instant start up time
- Plain BIND zone files
- Migration tools from legacy DNS platforms (zone2sql)
- Internal Lua-based scripted answer generation
- External high-performance Script-based answer generation

Geographical load balancing

- Full DNSSEC support including all standardized algorithms
- TSIG for transaction signatures, AXFR authorization/requests
- Master/Slave support
- Built-in web server for statistics and limited direct control
- REST API
- Local and remote access

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GEOGRAPHICAL LOAD BALANCING
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SERVER HEALTH CHECKING
- Customisable 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

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
- 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

MANAGEMENT & REPORTING

- GUI and Configuration
- Secure Web-Based GUI
- Customisable Dashboard
- Configurable Widgets
- Automatic Edgenexus 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

Tech Specs	edgeDNS-H1	edgeDNS-H2	edgeDNS-H3-10	edgeDNS-H4-10
Chassis	1U Half Depth	1U Full Depth	1U Full Depth	1U Full Depth
CPU Cores	4	6	8	12
Hyper Threading	Yes	Yes	Yes	Yes
Threads	8	12	16	24
CPU Base Frequency	3 GHz	3.40 GHz	3.2 GHz	3 GHz
Max Turbo Frequency	3.50 GHz	3.70 GHz	3.60 GHz	3.50 GHz
Cache	15MB SmartCache	20MB SmartCache	25MB SmartCache	30MB SmartCache
Memory	8GB	16GB	16GB	16GB - 384GB
Network Interface 1 GbE	2 x 1GbE	4 x 1GbE	4 x 1GbE	4 x 1GbE
Network Interface 10 GbE		Optional 2 x 10GbE	2 x 10GbE	2 x 10GbE
Storage	80GB SSD	120GB SSD	120GB SSD	180GB SSD
Power Consumption	70W Peak	148W Peak	148W Peak	148W Peak
Power Redundancy	No	Yes	Yes	Yes
Transactions per second	Up to 2500	Up to 5000	Up to 5000	Up to 5000

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