

Loadbalancer Endurance

Enterprise application delivery. Without the complexity.

Endurance delivers the performance, resilience and control that organisations need without the complexity, restrictive licensing and operational overhead traditionally associated with application delivery infrastructure.

Why Endurance?	What it means for you	Key capabilities
Simple by design	Deploy and manage application delivery without specialist skills, lengthy configuration or unnecessary operational complexity.	Modern UI, guided configuration and diagnostics, migration tools, simple updates, centralised management
Built for zero downtime	Keep critical applications available through infrastructure failures, maintenance and unexpected disruption.	Active-Passive and Active-Active HA, intelligent health checking and failover, GSLB, configuration backup and recovery
Automation without lock-in	Integrate load balancing into the way your infrastructure already works, rather than building processes around the appliance.	RESTful API, Infrastructure as Code, automated workflows, platform-agnostic deployment
Performance that scales	Choose the performance you need today with a platform designed to support increasingly demanding workloads.	High-performance L4/L7 traffic management, TLS offload, compression, 1GbE to 100GbE platforms, unrestricted VIPs/RIPs
Security built in	Protect applications and simplify day-to-day security administration without adding another management burden.	FIPS-validated cryptographic module (FIPS 140-3 Level 1), TLS certificate lifecycle management, RBAC, session-based authentication, LDAP/remote authentication
Predictable ownership	Get the capabilities you need without feature Licenses, artificial application limits or a complicated commercial model.	Unrestricted VIPs/RIPs, straightforward appliance tiers, flexible licensing, software and hardware options
Expert support when you need it	Get direct access to experienced engineers when something matters, without navigating layers of support escalation.	24/7 global technical support, diagnostic tooling, centralised logging, SNMP/email alerts, real-time performance monitoring

Zero downtime · Unrestricted VIPs · 24/7 expert support · Up to 100GbE

Endurance load balancer features

Everything you need to deliver, protect and manage critical applications — without unnecessary complexity.

Endurance combines advanced L4/L7 traffic management, high availability, global traffic routing, security, automation and real-time visibility in a single application delivery platform. Manage it through the intuitive WebUI or automate it through the RESTful API.

Traffic architecture and protocol support	Scheduling, persistence, and platform flexibility	SSL/TLS acceleration and application security	Administration, operations, and diagnostics
Layer 4/7 Load Balancing - Server Load Balancing (SLB) for TCP/UDP protocols - L7 Content Switching - HTTP/2 support - Unlimited Virtual and Real Servers - URI path rewriting, and header routing via REST endpoints. - Configure TCP/UDP listeners Global Server Load Balancing (GSLB) - Global topologies - Location affinity - DNS extension mechanisms - Scale up to 256 nodes per FQDN Flexible Forwarding Topologies - NAT-based forwarding - Configurable SNAT - Direct Server Return (DSR) for extreme throughput demands Performance Acceleration - HTTP/HTTPS caching - Static and dynamic HTTP compression Enterprise Network Integration - IEEE 802.1Q VLAN trunking 802.3ad interface bonding - IPv6 to IPv4 gateway (IPv6 transition) - USGv6-certified network stack - IPv4 & IPv6 addresses supported - IPv4 to IPv6 translation	Intelligent traffic routing - Round Robin - Weighted Round Robin - Least Connection - Weighted Least Connection - Agent-Based Adaptive - Chained failover (fixed weighting) - Source-IP hash - Direct-to-node Multi-layer session persistence - Session stickiness via Source IP (L4) - SSL Session ID - HTTP/HTTPS browser session (L7) - HTTP/HTTPS client session (L7) - Port Following for mixed HTTP/HTTPS sessions - RDP Login ID (L7) - Microsoft RDS session reconnection Granular health checks - ICMP health checking - Port check - HTTP status codes - Body content matching - Scripted / external health checks - TCP health check - HTTP/HTTPS health check Platform support - Dell, HPE, Lenovo, Supermicro - VMware, Hyper-V, KVM, Nutanix, Proxmox, HPE VM Essentials - AWS, Azure, GCP, HPE Private Cloud	Protocol and cipher control - Configurable support for TLS (1.2, 1.3) - Server Name Indication (SNI) - Unlimited certificate hosting Mutual TLS and mail security - Native mTLS client authentication - STARTTLS encryption for POP3, SMTP and IMAP protocols - SNI-based TLS termination Automated lifecycle and compliance - Certificate Signing Request (CSR) generation - OCSP certificate validation - Automated certificate chaining - ACME / Let's Encrypt Integration - FIPS-validated cryptographic module (FIPS 140-3 Level 1) Dynamic threat intelligence - Daily-updated reputation feeds - Rate-based L7 DDoS attack mitigation Access control and network security - Allow/Deny lists (Access Control List) - IP address filtering - LDAP/RADIUS authentication - Custom iptables - Firewall scripting - WARP tunnel support Web Application Firewall (WAF) - OWASP Top 10 Ruleset	Interface management - Web User Interface (WebUI) with context-based help - SSH and physical console - RESTful API Operational automation - Automated configuration backups - Configuration restoration workflows - Application templates - Connection draining Deep system diagnostics - Real-time performance dashboards - Remote Syslog export - Prometheus exporter - SNMP support - Diagnostic shell (tcpdump) - Network Time Security (NTS) High Availability - Active/Passive - Active/Active - Stateful failover clustering System Security - Single Sign-On (SSO) - Change auditing

Manage all your load balancers from a single platform

All our Enterprise load balancers come with free access to our centralized management platform, the ADC Portal, to help you manage your entire estate. You can even manage Third-party load balancers including F5, NetScaler, Kemp and A10 from the ADC Portal, helping you regain full control of your ADC estate.

The ADC Portal allows for more effective management of your application delivery across on-prem, cloud, or hybrid deployments. See all your load balancers in a single, consolidated view of all your assets—regardless of location or vendor. Instantly see their operational status, group your appliances using custom Namespaces and Tags, and fix any issues directly with remote access.

Single-pane dashboard

- Centralized visibility across all your load balancing assets
- Custom Namespace and Tag grouping
- Visibility of organization teams and namespaces with custom tags and filters
- Visibility of load balancer certificates and expiration dates

Automated lifecycle operations

- Centralized certificate management across all ADCs
- Backup scheduling, automation, and secure storage
- Online updates, scheduling, automation, and workflows
- Proactive SSL certificate monitoring
- SSL certificate expiry alerts
- Full audit logging of certificate actions
- License management across Loadbalancer.org appliances

Vendor-agnostic management

- Platform-agnostic, supporting hardware, virtual and cloud load balancers
- Centralized orchestration for native load balancers and third-party appliances (F5 BIG-IP, Citrix NetScaler, Progress Kemp LoadMaster, A10 Thunder ADC)
- Integrated CVE security insights and recommendations across all vendors

Identity and access management

- Full audit logging across the platform, including user history
- Two-factor authentication (SMS + App)
- SSO integration across SAML, Azure AD, and G Suite
- Advanced Role-Based Access Controls (RBAC)
- Secure remote access to load balancers via WARP

ADC Name	Running Status	HA Status	Address	Port	Version	Namespace
LNF Prod 01	Running	HA OK	10.100.0.10	37076	8.7.3	DC 1
LNF Prod 02	Running	HA OK	198.51.100.5	42002	8.11	DC2
F5 BIG IP - GWM Print 01	Running	HA OK	198.51.100.6	54760	15.10	Data C1
F5 BIG IP - GWM Print 02	Running	HA OK	10.100.0.20	443	16.12	Data C2
F5 BIG IP - GWM Print 03	Running	HA OK	198.51.100.7	873	17.1.1	Data C3
vThunder NF UAT/Dev	Running	HA OK	198.51.100.5	18465	4.1.4	GB_PO9
NetScaler GWM PACS 01	Running	HA OK	203.0.113.100	3972	14.1	US_RG_01
GWM PACS 02	Running	HA OK	203.0.113.156	2762	8.8.1	UAE_B4
RCH Mail 01	Running	HA OK			8.5.9	AWS_IRE_Z
LoadMaster RCH Mail 02	Running	HA OK			7.2.560	GCP_LDN_L
RCH Legacy	Running	HA OK	203.0.113.10	9274	4.2.10	DC2

Hardware load balancers

Hardware technical specifications

Our hardware appliances deliver high-performance application delivery for organizations of all sizes, with flexible configurations supporting connectivity up to 100 GbE.

All Endurance hardware appliances include GSLB and WAF as standard.

	Endurance Pro	Endurance Ultimate
Performance & Capacity		
Throughput (L4/L7)	48 Gbps	95 Gbps
Servers / VIPs / RIPs	Unrestricted	Unrestricted
TLS transactions per second	19,584 TPS	30,059 TPS
L7 requests per second	600,000	1,200,000
L7 concurrent connections	550,000	1,100,000
L4 connections per second	300,000	600,000
L4 HTTP requests per second	1,234,455	2,747,128
L4 Maximum concurrent connections	41,200,000	72,400,000
TLS (1K key) (1024-bit)	19,584 TPS	30,059 TPS
TLS (2K keys) (2048-bit)	15,883 TPS	22,374 TPS
TLS (3K keys) (4096-bit)	6,111 TPS	9,654 TPS
Bulk encryption	15 Gbps	30Gbps
Compression throughput	12 Gbps	24 Gbps
DICOM studies per year	4,000,000	8,000,000
Network & Interfaces		
Connectivity	10/25 GbE	25 GbE or 100 GbE
Standard network adapters	2 × 1 GbE RJ45 2 × 10/25 GbE SFP28	2 × 1 GbE RJ45 4 × 25 GbE SFP28
Jumbo Frames	Supported	Supported
Maximum MTU	9,000	9,000
Remote management	Dedicated 1GbE iDRAC9 Enterprise	Dedicated 1GbE HPE iLO Advanced
Console interfaces	Serial / VGA / USB-C	Serial / VGA / USB-C
System Hardware		
Hardware Platform	Dell PowerEdge R360XE	HPE ProLiant DL360 Gen11
Processor	Intel® Xeon®, 3.6 GHz, 6C/12T	Intel® Xeon® Silver, 2.0 - 3.9 GHz, 20C/40T

	Endurance Pro	Endurance Ultimate
Memory	32 GB RAM	32 GB RAM
Storage	2 TB HDD	480 GB SSD
RAID	✗	✗
Rack size	1U	1U
Rack rails	✓	✓
Power, Physical & Environmental		
Power supply	2 × 600 W PSU	2x 1000 W PSU
Hot-Swap, Redundant Power Supply	✓	✓
Input voltage and Frequency	100–240 V AC, 50/60 Hz	100–240 V AC, 50/60 Hz
Maximum power consumption	600 W	1000 W
Maximum heat dissipation	2,250 BTU/hr	3,582 BTU/hr
Power cords	2 × Included (Regional options available)	2 × Included (Regional options available)
Dimensions (W × H × D)	482 × 42.8 × 563.3 mm (19.0 × 1.7 × 22.2 in)	434.6 × 42.9 × 753.1 mm (17.1 × 1.7 × 29.6 in)
Maximum configured weight	13.23 kg (29.17 lbs)	20.44 kg (45.07 lb)
Operating temperature	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)
Operating humidity	8% to 90% RH, non-condensing	8% to 90% RH, non-condensing
Operating altitude	Up to 3,050 m / 10,000 ft	Up to 3,050 m / 10,000 ft
Storage temperature	-40°C to 65°C (-40°F to 149°F)	-30°C to 60°C (-22°F to 140°F)
Warranty & Service		
Hardware warranty	3 years	3 years
Warranty extensions available	✓	✓
Onsite response	Next business day	Next business day

Performance figures are based on controlled test conditions. Actual performance may vary.

Additional options available on request

Endurance appliances can be tailored to meet specific requirements. Options include additional 1GbE, 10/25GbE, 40GbE, 50GbE and 100GbE network interfaces, RAID configurations, DC power, drive retention, and enhanced 2, 4 or 8-hour onsite hardware response.

Some options require hardware changes or additional services and may incur an additional charge. Speak to our team when ordering and we'll recommend the appropriate configuration for your environment.

Virtual load balancers

Virtual technical specifications

Choose from our three virtual products, depending on your organizational needs. If your requirements change, we provide seamless, zero-downtime upgrades—simply pay the difference between the two license tiers.

	Endurance VA Lite	Endurance VA Essential	Endurance VA Ultimate
Throughput	500 Mbps	5 Gbps	Unrestricted
Layer 7	✓	✓	✓
Layer 4	✓	✓	✓
SSL Termination	✓	✓	✓
TLS TPS	500 TPS	10,000 TPS	Unrestricted
Servers (VIPs/RIPS)	5	Unrestricted	Unrestricted
vCPU / RAM / Storage	2vCPU / 4 GB RAM / 40 GB	4vCPU / 8 GB RAM / 60 GB	8vCPU / 16 GB RAM / 80 GB
API Access	✓	✓	✓
GSLB	✗	✓	✓
WAF	✗	✓	✓
SSO / RBACs	✗	✗	✓
FIPS-validated cryptographic module (FIPS 140-3 Level 1)	✗	✗	✓
Support Level	Business Hours	Standard 24/7	Standard 24/7

Platforms

Our virtual appliances are compatible with all the major hypervisors, including the following:

- Vmware ESXi
- Nutanix AHV
- Proxmox VE
- Oracle VirtualBox
- Microsoft Hyper-v
- Xen
- KVM
- HPE VM Essentials

This allows for easy deployment and management of our software on various virtualization platforms.

Virtual licensing

Loadbalancer offers some of the most competitive, unique virtual licensing options in the industry:

- **Subscription:** Choose a billing cycle that fits your budget—monthly, quarterly, or annually
- **Perpetual:** Own the appliance outright; your only ongoing cost is the support contract.
- **Site License:** Scale locally, unlimited virtual deployments locked to a single facility.
- **Global License:** Unlimited virtual deployments across any site, anywhere in your organisation.



Cloud load balancers

Deploy Endurance across major public and private cloud platforms with flexible licensing and unrestricted throughput. Performance scales with the cloud instance you choose, so you can make full use of the resources you're already paying for.



Choose the licensing model that fits your environment — **annual**, **hourly billing** or **Bring Your Own License (BYOL)** — with unlimited throughput, subject only to the capabilities of the underlying cloud instance.

Professional services

You can do it yourself. Or we can do it for you.

Endurance is designed to be simple to deploy, but our Professional Services team can take care of the entire process for you. From configuration and testing to migration, cutover and handover, our experienced engineers get your environment production-ready quickly and painlessly — reducing risk, saving your team's time and giving you confidence everything is configured correctly from day one.

Consultative support

Protecting your production deployments

Support goes beyond the load balancer. From minute one, you connect directly with **Level 3 network engineers** who help troubleshoot your wider application and network environment — even when the root cause sits outside the Loadbalancer.org appliance. In fact, **over half of the support tickets we resolve involve issues elsewhere in the customer environment**.

Backed by almost **25 years of application delivery experience** across thousands of deployments, our engineers act as an extension of your technical team, with **unlimited support requests, security and feature updates, remote troubleshooting, and business-hours or 24/7 support options**. Every appliance is protected by a defined Service Level Agreement (SLA), with clear response commitments based on severity and business impact.

 **REVIEWS.io** 4.91 rating, from nearly 1,000 reviews 

Contact Support



Email
support@loadbalancer.org



Tel
[US +1 833 274 2566](tel:+18332742566)



Support hub
loadbalancer.org/support



Live Chat
loadbalancer.org

What's included in your support package?

Expert assistance	Complete coverage
Level 3 engineer access from the start	Unlimited support requests
Infrastructure and third-party troubleshooting	Unlimited security and feature updates
Remote troubleshooting and assistance	Business-hours or 24/7 support options
Telephone, email, Zoom and chat	Priority case management

[Learn more about our consultative approach to support](#)

Less than 20 minutes

Average human response time across all support cases

Our average human response time is under 20 minutes across all cases — from business-critical, site-down incidents to general technical assistance, not just priority tickets.

Integrations & Automation

Slots seamlessly into your existing tech stack

Endurance is built to fit into the infrastructure, monitoring and automation workflows you already use. An API-first architecture with RESTful API and OpenAPI 3.0 support enables programmatic configuration and automation across application delivery, traffic management, health checks, TLS and security policies.

Integrate Endurance into Infrastructure as Code and configuration management workflows with Terraform, Ansible, Puppet and Chef, while connecting operational data with existing monitoring, observability through Prometheus, Grafana and Syslog, with integration into SIEM platforms such as Splunk.

Contact us

Sales

Discuss your requirements, get pricing or arrange a technical evaluation with our team.

UK: +44 (0)330 380 1064

US: +1 888 867 9504

Email: sales@loadbalancer.org

Technical Support

Get help from our experienced load balancing engineers, with 24/7 support options available.

UK: +44 (0)330 380 1064

US: +1 888 867 9504

Email: support@loadbalancer.org

Resources

Documentation Technical documentation and administration guides.

<https://docs.loadbalancer.org/>

Deployment guides

Hundreds of step-by-step guides for deploying Loadbalancer.org with enterprise applications, healthcare platforms, storage technologies and more.

<https://www.loadbalancer.org/resources/?filter-type=application>

Knowledge base

Technical articles, troubleshooting guidance and support resources.

<https://www.loadbalancer.org/support/>

Security & policies

Access our security, privacy, compliance and company policies.

<https://www.loadbalancer.org/legal/>

Built on trusted standards

