HAProxy Enterprise

Software Load Balancer & Application Delivery Controller

HAProxy Enterprise combines HAProxy, the world's most widely used software load balancer and application delivery controller, with enterprise class features, services and premium support.

HAProxy Enterprise is a powerful product tailored to the goals, requirements and infrastructure of modern enterprises.

Why choose HAProxy Enterprise?

Robust and cutting-edge code base
HAProxy Enterprise combines the best of HAProxy Community stable and development versions. It provides a robust, reliable code base plus the latest cutting-edge features.

Enterprise suite
Administration and security-focused modules, tools and scripts.

Reliable performance
Proven reliability since 2000 and extreme performance based on innovative code optimizations.

Versatility
HAProxy Enterprise runs in all environments, from bare metal, containers and virtual servers to on-premise data centers or public/private clouds. It integrates with popular DevOps and service discovery tools.

Extensible features
Robust core code allows for the native delivery of a wealth of features based on powerful configuration language.

Support
Full 24x7 support and 5-year maintenance guarantee for HAProxy Enterprise Premium customers.
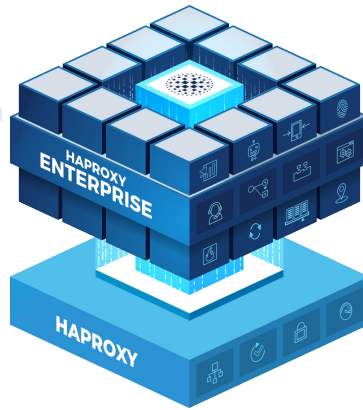
Advanced security
Next-generation HAProxy Enterprise WAF, HAProxy Enterprise Bot Management Module, and Global Profiling Engine protect applications and APIs for the world's top websites.

Expertise
Team of experts including the HAProxy core development team for incident response and complex troubleshooting.

Reputation
Trusted by many of the top websites and cloud providers in the world.

HAPROXY

Feature Comparison Table

FEATURE	HAPROXY Enterprise	HAPROXY
Advanced HTTP/TCP Load Balancing and Persistence	✔	✔
Advanced UDP Load Balancing	✔	Syslog only
Advanced Health Checks	✔	✔
Application Acceleration	✔	✔
Advanced Security	✔	✘
Advanced Administration	✔	✘
Backported Features From HAProxy Dev Branch	✔	✘
Technical Support	✔	✘
VRRP and Route Health Injection HA Tools	✔	✘
ACL, Map, and TLS Ticket Key Synchronization	✔	✘
Advanced Application-Based DDoS Protection and Bot Management	✔	✘
HAProxy Enterprise Bot Management Module	✔	✘
HAProxy Enterprise WAF	✔	✘
HTTP Protocol Validation	✔	✘
Global Profiling Engine	✔	✘
Global Server Load Balancing (GSLB)	✔	✘

HAProxy Enterprise Features

Security

Reverse Proxy
Proxy all traffic from the Internet to your application servers through HAProxy, exposing only intended services and logging requests.

HTTP Validation
Validate that requests comply with the protocol specifications before sending them on to application servers.

Advanced Application-based DDoS Protection
Blocks requests from clients based on multiple metrics and criteria over a configurable time window.

Anomalous Behavior Protection
Combine multiple metrics about a client's behavior for smarter routing and access decisions.

Dynamic Update
Updates ACL, Map, or TLS ticket key files in memory normally loaded from disk during HAProxy startup during runtime.

Traffic Filtering
Use ACLs to detect any condition in HTTP(S) traffic and route or block the request as desired.

HAProxy Enterprise Bot Management Module
Enable fast, reliable, and flexible bot identification with 100% local processing for low latency.

reCAPTCHA
Present a Google reCAPTCHA v2 or v3 challenge to clients that exhibit anomalous traffic patterns.

Fingerprint Module
Generate a unique identifier based on a client request.

Sanitize Module
Filter and verify that HTTP header names and contents comply with the HTTP specification.

HAProxy Enterprise WAF
Powered by our Intelligent WAF Engine and with optional OWASP Core Rule Set (CRS) compatibility, the high-performance HAProxy Enterprise WAF provides unmatched application security.

Load Balancing

Comprehensive LB Methods
Load balance by round robin, least connections, URI, IP address and several hashing methods.

Advanced Routing Decisions
Send requests to specific application clusters based on URL, domain name, file extension, client IP address, the health state of backends, number of active connections, SSL client certificate, and more.

Stickiness/Persistence
Maintain users' sessions based on TCP/IP information or any property of the HTTP request (cookies, headers, URI, and more).

Extensive ACL System
Make advanced decisions based on any TCP/IP information or HTTP attribute with full logical operator support.

Global Server Load Balancing (GSLB)
Distribute client requests across geographically dispersed data centers to ensure the utmost performance and high availability.

Traffic Shaping
Avoid congestion and slash latency by controlling the bandwidth of data flowing in and out of your load balancers.

High Availability

Advanced Health Checks
Gain flexibility when monitoring your backend servers with both active and passive health checks. You can also deploy Agent software to remotely push state changes to HAProxy from your monitored servers.

Slow Start
Slowly increase the rate of new sessions sent to a backend when it comes up instead of sending traffic all at once.

Slow Stop
Drain requests from servers, while allowing users to finish their sessions.

Traffic Overload Protection
Limit the maximum number of connections assigned to application servers, either sending them to other server clusters or queuing the requests in HAProxy if that limit is reached.

Hitless Reloads
Eliminate lost connections. Reloads of HAProxy Enterprise do not lose any connections during upgrades or changes to the configuration.

Route Health Injection (RHI)
An optimized version of third-party software that allows for the control of routing protocol announcements based on the health of the network and the HAProxy service for active/active clustering.

VRRP
An optimized version of the keepalived daemon for active/passive clustering.

Traffic Shadowing
Mirror requests from one environment to another for testing new features.

Administration

Streamlined Management
Use HAProxy Fusion Control Plane to centrally manage HAProxy Enterprise load balancer fleets, both on premises and in the cloud.

Runtime API
Programmatically pull data from or make changes to HAProxy during runtime.

DNS for Service Discovery
Dynamically scale the number of application servers by querying a service registry over DNS.

Server Templates
Provision multiple application servers with a single server line to be filled in during runtime.

Data Plane API
Programmatically add, modify or remove sections of your configuration using the HTTP API.

Global Profiling Engine
Provides real-time aggregated values from stick tables across multiple processes or servers in a cluster which allows for real-time cluster-wide tracking.

SSO Module
Enable SSO (Single Sign On) on a Microsoft Active Directory domain.

Extensive Logging
Log information about requests, with support for syslog and cloud-native logging.

Lua Scripting and Module Support
Extend and customize HAProxy with Lua scripts that can access the request/response pipeline. Harness our powerful Lua Event Framework.

⚡ Application Acceleration

▶ **High-Performance SSL/TLS**
Terminate TLS on the HAProxy load balancer, optionally establishing a TLS connection to the backend server for end-to-end encryption.

▶ **Automated OCSP Stapling**
Efficiently check the revocation status of TLS certificates and preemptively send this status information to clients.

▶ **Advanced SSL Algorithm Selection**
Automatically pick the optimal certificate for a given client, enabling simultaneous use of ECC and RSA.

▶ **Let's Encrypt acme.sh Client Support**
Seamlessly integrate HAProxy Enterprise with your automated TLS certificate infrastructure.

▶ **Cutting Edge Protocol Support**
Accelerate end-to-end communication using HTTP/2 or HTTP/3 over QUIC.

▶ **UDP**
Fast, reliable, and flexible UDP load balancing with best-in-class performance at scale.

▶ **gRPC**
Route and load balance gRPC calls between services, taking advantage of its efficient, binary serialization.

▶ **Multithreading**
Split processing across multiple threads while sharing the same memory space.

▶ **Object Caching**
Offload static content delivery from your application servers so they can perform their primary duty-delivering the application.

▶ **Connection Pooling**
Reuse idle connections between HAProxy and your backend servers to save time.

▶ **Compression**
Reduce bandwidth usage by compressing HTTP requests and responses from backends before passing them on to clients.

▶ **Geolocation Support**
Load geolocation databases from multiple vendors into HAProxy for advanced request handling, routing, and for passing information on to your application servers. Includes live updating of databases.

▶ **Device Intelligence**
Gets information about a client by passing the user-agent string to one of HAProxy's supported device detection databases.

🎧 SUPPORT

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HOURS	**CRITICAL ISSUE**	**CONSULTATIVE SUPPORT**
24x7	Target Response Time - **30 mins**	Business Hours
• • •	• • •	• • •
COMMUNICATION	**MODERATE ISSUE**	**PROMPT MAINTENANCE AND UPDATES**
Web Portal, Email, or Slack Live Chat (business hours)	Target Response Time - **2 days**	
	• • •	
	INFORMATIONAL ISSUE	
	Target Response Time - **3 days**	