

HALTDOS CANARY TECHSPECS

Base Models

HD-CAN-550 HD-CAN-1100 HD-CAN-4100 HD-CAN-4600

MITIGATION PERFORMANCE				
L4 Throughput	upto 500 Mbps	upto 1 Gbps	upto 5 Gbps	upto 24 Gbps
L7 Throughput	upto 500 Mbps	upto 1 Gbps	upto 4 Gbps	upto 20 Gbps
SSL Throughput	500 Mbps	1 Gbps	4 Gbps	20 Gbps
Compression Throughput	500 Mbps	1 Gbps	4 Gbps	20 Gbps
Decompression Throughput	500 Mbps	1 Gbps	5 Gbps	20 Gbps
Decompression Throughput	10K (RSA 2K)	22K (RSA 2K)	22K (RSA 2K)	40K (RSA 2K)
SSL/TLS Connections per Second	5K (ECC)	15K (ECC)	15K (ECC)	25K (ECC)
14 Connection now Cocond		400 K	600 K	960 K
L4 Connection per Second	320 K			
L7 Request per Second	250 K	500 K	1 M	3 M
Max Concurrent Connections	7 M	12 M	24 M	32 M
Induced Latency		< 1	ms	
HARDWARE SPECS				
Processor	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
CPU Cores	6	8	8	20
Memory	8 GB	16 GB	16 GB	32 GB
Hard Disk	128 GB SSD	128 GB SSD	256 GB SSD	256 GB SSD
Halu Disk	120 GB 33D			230 GD 33D
		Option available for R		
Additional Specs	Built-in TPM Chip and Hardware HSN			
Additional Specs	Option available for FIPS-140-2 (add	itional charge) or Non-FIPS complia	ant HSM	
Form Factor	1U/2U Rack Mount Server (19 inch n	nounting) with panel indicators		
Power Supply	Redundant Power Supply (Hot Swap	ppable) AC 170-240V, 50 Hz		
Operating Temperature	0° – 40° C	.,,		
Humidity	8% - 95% (non-condensing)			
Virtual ADC Supported	NA	NA	NA	unto 1F
virtual ADC Supported				upto 15
NAS-A-IAN		Hard Disk and Memory can be co	ustomized over the base model	
INSPECTION PORTS				
1 GE Ports	4	8	8	8
10 GE Ports	-	-	-	2
25 GE Ports	-	-	-	-
40 GE Ports	-	-	-	-
100 GE Ports	_	_	_	_
100 GE FORES	_	No. of ports can be custom	sized ever the base model	_
AUT AT DANID DADTO		No. or ports can be custom	nized over the base model	
OUT OF BAND PORTS				
1 GE (RJ-45) Ports	1	2	2	2
			1	1
Console (RS232/RJ45) Ports	-	1	-	
	1	1	1	1
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+)	1	1	1	
Console (RS232/RJ45) Ports				1 2
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+)	1	1	1	
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+)	1	1	1	
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models	1 2	2	2	2
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE	1 2 HD-CAN-5100	1 2 HD-CAN-5400	1 2 HD-CAN-6200	2 HD-CAN-6700
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput	1 2 HD-CAN-5100 upto 48 Gbps	1 2 HD-CAN-5400 upto 72 Gbps	1 2 HD-CAN-6200 upto 120 Gbps	2 HD-CAN-6700 upto 150 Gbps
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 24 Gbps 30 Gbps	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 37 Gbps 54 Gbps	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K)	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K)	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K)	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K)
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput SSL/TLS Connections per Second	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC)	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC)	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC)	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC)
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Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput SSL/TLS Connections per Second L4 Connection per Second	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC) 1.5 M	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC) 2 M	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC) 4 M	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC) 4.2 M
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput Decompression Throughput L4 Connections per Second L4 Connection per Second L7 Request per Second Max Concurrent Connections	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC) 1.5 M 7 M	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC) 2 M 10 M 96 M	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC) 4 M 15 M 160 M	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC) 4.2 M 18 M
Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput Decompression Throughput L4 Connections per Second L4 Connection per Second L7 Request per Second Max Concurrent Connections Induced Latency	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC) 1.5 M 7 M	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC) 2 M 10 M	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC) 4 M 15 M 160 M	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC) 4.2 M 18 M
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Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput SSL/TLS Connections per Second L4 Connection per Second L7 Request per Second Max Concurrent Connections Induced Latency HARDWARE SPECS Processor CPU Cores	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC) 1.5 M 7 M 56 M	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC) 2 M 10 M 96 M < 1 Intel Xeon 40	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC) 4 M 15 M 160 M ms Intel Xeon 64	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC) 4.2 M 18 M 192 M Intel Xeon 64
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Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) Base Models MITIGATION PERFORMANCE L4 Throughput L7 Throughput SSL Throughput Compression Throughput Decompression Throughput SSL/TLS Connections per Second L4 Connection per Second L7 Request per Second Max Concurrent Connections Induced Latency HARDWARE SPECS Processor CPU Cores Memory Hard Disk Additional Specs Form Factor Power Supply Operating Temperature	1 2 HD-CAN-5100 upto 48 Gbps upto 40 Gbps 40 Gbps 24 Gbps 30 Gbps 40K (RSA 2K) 25K (ECC) 1.5 M 7 M 56 M Intel Xeon 32 64 GB 512 GB SSD Option available for RAID or dual parl Built-in TPM Chip and Hardware HSN or Non-FIPS compliant HSM 1U/2U/4U Rack Mount Server (19 inc Redundant Power Supply (Hot Swar	1 2 HD-CAN-5400 upto 72 Gbps upto 60 Gbps 50 Gbps 37 Gbps 54 Gbps 95K (RSA 2K) 48K (ECC) 2 M 10 M 96 M < 1 Intel Xeon 40 128 GB 1 TB SSD tition If or SSL offloading & compression ch mounting) with panel indicators	1 2 HD-CAN-6200 upto 120 Gbps upto 100 Gbps 100 Gbps 66 Gbps 120 Gbps 95K (RSA 2K) 48K (ECC) 4 M 15 M 160 M ms Intel Xeon 64 256 GB 2 TB SSD	2 HD-CAN-6700 upto 150 Gbps upto 120 Gbps 200 Gbps 132 Gbps 240 Gbps 190K (RSA 2K) 96K (ECC) 4.2 M 18 M 192 M Intel Xeon 64 512 GB 2 TB SSD
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TECHNOLOGY, CERTIFICATION & SUPP	ORT	
Platform	Haltdos Platform – hdPlatform (EAL 2+ Certified)	
Technology	Signature with Threat Intelligence, Machine Learning	
License	Unlimited applications. Bandwidth capping on provided license. Upgrade possible without hardware replacement upto max supported	
Additional Licenses	bandwidth on hardware Optional license for LLB & DNS Firewall	
Certification	FCC, ROHS, CE compliant, Common Criteria EAL 2+	
Support		
Warranty	1 year software and hardware maintenance. Additional changes for extended warranty	
TAC Support	TAC support in India	
OPERATION MODE	I Jalias Baugus Davas, Jalias Farunari Davas, Jalias Daldas, Jalias Davas, Mada Jalias I 3 Tanasananth (Kiling	
Network Operations Inline Modes	Inline Reverse Proxy, Inline Forward Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline Proxy or Direct Server Return	
Deployment Modes	1-Arm or n-Arm	
Binding	Immediate or Delayed binding	
IP Stack	Dual IPv4 & IPv6 stack	
HTTP Protocols	HTTP 0.9/1.0/1.1/2.0/3.0 (QUIC) with translation	
Web Socket Support Virtual Matrix Architecture	Yes	
Direct Access Mode	Yes Yes	
Mitigation Modes	Bypass, Record (Report Only), Learning, Mitigation (Block and Report)	
Dynamic Routing Protocols	BGP, OSFP, RIP v1, RIP v2	
Networking	Support for VLAN, Link Aggregation & Trunking (LACP). ARP Table, multiple Routing Tables, etc	
Block Actions	Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit	
HIGH AVAILABILITY	оттари	
Multiple Appliances	N + 1 Active - Active or Active – Passive (VRRP) with floating MAC	
Management Modes	Standalone / Centralized Management (VM or appliance) with Haltdos Hawk	
Secure Communication	Secure communication between centralized management and HA appliances for full state synchronization	
INTEGRATION FEATURES		
Custom Threat Intel	Integration with 3 rd party Threat Intelligence (TI) feeds	
Storage and Export NIMS Integration	Local retention of logs, reports and events. Support for export to 3 rd party storage Support for SNMP, NTP / SNTP, DNS, Web Proxy integration	
3rd Party Integration	Notification & Logging via SNMP, SMTP, SMS Gateway, and 3rd party integration via API hooks, CI/CD, Kubernetes	
SIEM Integration	Support for integration with SIEM and Syslog services	
AAA Integration	Support for integration via RADIUS and TACACS+	
Identity Management	Inbuilt with support for integration with AD / SAML / LDAP	
Security Tools Integration Export IOCs	Support for integration with SAST/DAST/IAST tools	
MANAGEMENT FEATURES	Support for exporting attacking IOCs via STIX / TAXII	
Graphical User Interface (GUI)	Secure web interface over HTTPs with support for all modern browsers	
Command Line Interface (CLI)	Command Line Interface over SSH or console port	
API Integration	Yes (XML or JSON)	
System Management	IPMI 2.0 Compliant	
Audit Trail, Logging & Recovery	Centralized logging of system, services, MIS, incidents. Built-in MIS with policy recovery	
Dashboards System Status Dashboard	Real-Time & historical dashboards with custom duration. Support for custom dashboards	
Reporting	Status dashboard for 1-click health check Periodic daily, weekly or monthly reports in PDF or Excel	
RBAC Administration	Configurable user profiles with role based access control	
Backup, Restore & Snapshots	Automatic or manual backup and restore. CLI tool for pushing current snapshot to Haltdos Cloud for diagnostics	
Policy Management	On the fly configuration updates on mitigation appliances	
Certificate Management	SSL certificate management with support for Let's Encrypt certificate generation	
Events / Alerts Network Forensic	Detailed event and alert reporting on attack, health, diagnostics etc. Network forensic with packet capture and traceroute	
Attack Forensic	Built-in utilities for investigating attackers, attack payloads and identifying false positives.	
Haltdos Threat Stream	Periodic threat intel updates (Signatures, Geo IP, Bad IP, TOR IP, Anon Proxy, etc.) from Haltdos	
Updates	Update and upgrade management on version releases and patch updates from Haltdos. Support for multiple OS Templates	
ADC FEATURES		
Enforce RFC Compliance	Protection against invalid HTTP, MQTT requests	
NAT & Routing	Support for client, server or full NAT, static routing for IPv4 & IPv6 Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication	
SSL/TLS Management	also supported, proxy SSL/TLS connections	
Load Balancing	Layer 4 (TCP, UDP, Mail, etc.) and Layer 7 (HTTP, DNS, etc.) supported	
Advanced Load Balancing	Content based load balancing with upstream rules	
Load Balancing Algorithms	Round robin (RR), weighted round robin, minimum misses, persistent hash, tuneable hash, least connections, least response time, least	
Network Optimization	bandwidth, SNMP metrics such as CPU, RAM, etc. Support for TCP buffering, multiplexing & optimization, connection pools, TCP keep alive & timeouts	
HTTP Optimization	Support for for puriently, multiplexing & optimization, connection pools, for keep alive & unleades Support for content compression (gzip or brotili) and caching. Content minification and acceleration for mobile clients	
Virtual Contexts	Support for multiple virtual contexts along with resource allocation	
Failover Management	Automatic failover & recovery. Support for marking servers up / down / backup	
Health Check	Periodic server or server group health check and alerting via TCP, SSL, ICMP, SNMP, HTTP, DNS or custom script	
Client Visibility	Embedding Real IP information in X-* headers, client cert information, etc	
Redirection Rules Variable Rules	REGEX based redirection rules to rewrite URLs Support for embedding and using variables for A/B testing or custom load balancing	
Script Rules	Embedding user defined custom code for advanced routing	
Error Handling	Error rules for custom error handling	
Content Transformation	Transformation rules for data manipulation and Header rules for add / edit or delete headers in request or response JSON to XML, HTTP to MQTT &	
End-User Fingerprinting & Monitoring	vice versa Advanced user and device fingerprinting for user profiling and Real User Metrics (RUM) for performance monitoring	
DDoS Protection	Protection against volumetric and low & slow DDoS attacks. Support for rate limiting based on connections and requests	
Compliance	PCI DSS 2.0 section 6.6 enforcement	
API Security	Built-in API gateway for authentication, rate limiting, transformation, documentation and discovery	
SSO	Support for Single SignOn with multiple Auth type like Basic Auth, Form Auth, NTLM, LDAP, SAML, etc.	
WAF FEATURES	LOWACD Tan 10 Web Application Cognitive Dialog OWACD Tan 20 Automated Throats and CAMP 20 C. C.	
Comprehensive Security Security Profiles	OWASP Top 10 Web Application Security Risks, OWASP Top 20 Automated Threats and SANS 25 Software Errors Multiple security profiles with support for different security status per application based on url, source, country, regex, etc.	
Positive Security Model	Support for Form Rules for positive security model	
Negative Security Model	Support for user defined Firewall Rules for REGEX based negative security model	
Virtual Patching	Support for virtual patching through built-in web security scanner or upload of 3 rd party SAST / DAST / IAST scan results	
Built-in Signatures	Over 4000+ built-in signatures on various technologies, platforms and frameworks with pre-defined templates.	

0-day Protection	Automatic learning and profiling application structure. Threat scoring and baseline creation for AI driven 0-day attack protection
Malicious Source Protection	Protection against TOR IP, Bad Reputation IP, dark IP, known Bots, proxies, spammers provided by Haltdos or user defined threat intel
Bot Management	Anti-bot protection with AI classification and scoring of bots based on advanced browser fingerprinting
Anti-Automation Protection Mobile App Protection	Protection against known and 0-day bots, account takeover attempts, brute force attempts, scraping, reconnaissance, cloaking, etc Anti-Bot mobile SDK for Android & iOS for protecting mobile apps and communication between apps and web APIs
AV Scanning	Built-in AV scanner for malicious file upload. Support for ICAP integration for 3 rd party scanners
Minimize False Positives	Support for REGEX based whitelist rules and signature staging and deploy policies to minimize signature based false positives
HTTP Validations	Protocol validations, request normalization (encoding & evasion techniques) before inspection, managing security headers and cookies etc.
Policy Inspection	Policy validation such as HTTP methods, file extension, request size, etc
Blacklist / Whitelist	Support for temporary or permanent Blacklisting and Whitelisting based on IP, IP prefix, url, country, etc
Captcha Challenge	Support for JS or captcha challenge on suspicious user activity or known bots or malicious IPs
Rate Limiting	Rate Limit rules for implementing request, bandwidth or connection limits per source, IP prefix or user defined policy
API & WebSocket Protection	Built-in XML firewall, validation of XML / JSON / Ajax requests and WebSocket requests
Security Breach Prevention Tamper Proofing	Built-in support for data leak prevention, response filtering for sensitive personal identifiable information Tamper rules for URL / parameter tamper protection, website defacement, hidden form field protection, cookie signing and encryption, etc.
Correlation Engine	Advanced correlation engine with support for custom correlation rules for detecting attack across user requests and sessions
Variables & Scripting	Support for user defined variables and scripts for building custom application specific security policy
Deception Technology	Implement decoys in web application to protect against advanced bots, profile attacks and trap attackers
Sensitive Data Masking	Support for Log Rules for masking sensitive information such as passwords in logs and events
Enfanced Ducusing	Protection against forceful browsing, access to predictable resources, unauthorized navigation with additional security enforcement with
Enforced Browsing	Two factor authentication (2FA)
Misc. Protection	Support for protection against buffer overflow attacks, man-in-the-middle attacks, blocking malware payload, buffer overflow, SQL, SSI,
	LDAP injection, etc
LLB FEATURES (ADDITIONAL LICENSIN	,
Load Balancing & Path Selection	Round robin (RR), weighted round robin, minimum packet loss, persistent hash, tuneable hash, least connections, least response time, least bandwidth , etc. Path selection based on jitter, packet loss, latency, etc.
NAT Rules	Support for static NAT, dynamic NAT, SNAT, DNAT, PAT, Full NAT
	Link monitoring with instant failover (<1s), Support for TCP, HTTP, DNS, ICMP or script based monitoring, Multiple monitors with AND / OR
Health Monitoring	combination
Routing Rules	Custom rules for Static and Policy based routing
Dual Stack Lite	Support for NAT 46 / 64 and DNS 46 / 64 with DNS Proxy
Traffic Shaping	Traffic shaping and QoS on inbound and outbound links
GSLB FEATURES (ADDITIONAL LICENSI	·
Global Load Balancing WAN Load Balancing	Kouting traffic across multiple data centres based on health checks Outbound WAN link selection based on link health
Load Balancing Algorithms	Support for Least connection, Proximity, Round Robin, Weighted RR, Persistent Hash, Geo, etc.
Operation Mode	Option for Authoritative or Recursive operational modes with support for various DNS record types such as A, AAAA, MX, TXT, PTR, etc.
Routing Rules	Custom rules for Static and Policy based routing
Network Mode	Support DNS over HTTP, UDP, TCP & SSL as well as DNSSEC
DNS Firewall	Protecting DNS infrastructure from bot attacks, data exfiltration attacks, RPZ policy
Blacklist / Whitelist	Support for permanent Blacklisting and Whitelisting based on IP, IP prefix, domain, country, etc
Custom Signatures DDOS FEATURES (ADDITIONAL LICENS	Support for user defined custom rules with support for pattern, suffix, domain, etc
Comprehensive Protection	Layer 3 to Layer 7 protection covering Network, Protocol, Application, Reflection / Amplification and 0-day DDoS attacks
DDoS Detection & Mitigation	Attack detection & mitigation in less than 18s and 10s respectively
Block Actions	Drop Packet, Terminate Connection (RST), Blacklist (temporary or permanent), Send Challenge (TCP, HTTP, DNS), Rate Limiting
Hybrid DDoS Integration	Support for integration with Haltdos Cloud Scrubbing or ISP clean pipe services
Bi-Directional	Support for both inbound and outbound traffic protection
Deep Packet Inspection	Protection against malformed packets (TCP, UDP, ICMP, Ping of death, DNS, HTTP, SIP, SNMP, IPv4, IPv6, Fragmented packets, etc.)
Enforce RFC Compliance	Protection against misbehaving clients sending invalid or out of state packets
Bot Protection	Automatic detection and blocking of bot traffic with support for manual bot policy
Behaviour Analysis	Network behaviour analysis for anomaly detection and packet scoring technology Support for multiple security profiles for enforcing different policy for different sub -networks (Src, Dst IP Prefix, VLAN). Default Global
Multiple Security Profiles	support for multiple security profiles for emorang different policy for different sub-fletworks (Src, Dst IP Prefix, VLAN). Default Global security profile
Port Mirroring	Mirror traffic / specific traffic to another NIC port
Rate Limit & QoS Management	Rate limit capability for bandwidth and QoS management with option for rate limit of specific traffic (based on proto, src, dst, etc.)
Blacklist / Whitelist	Support for temporary or permanent Blacklisting and Whitelisting based on IP, IP prefix, domain, country, etc
Malicious Source Protection	Protection against TOR IP, Bad Reputation IP / domain, dark IP, malicious Bots, proxies, resolvers, etc
Custom Signatures	Support for user defined custom rules with support for REGEX and byte matching
SYN Flood Protection	TCP SYN flood protection with SYN Proxy and connection aging
Challenge & Response Connection Based Protection	Support for TCP, HTTP, DNS challenge and response for validation of traffic from suspicious sources Protection against TCP connection DDoS attacks such as sockstress, connection / src, zombie flood, SSL renegotiations, etc
DNS Protection	Built-in DNS firewall capability for protecting DNS infrastructure against DNS DDoS attacks (Water Torture, NXDomain, etc.)
L7 DDoS Protection	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc
L7 DDoS Protection Machine Learning Protection	
Machine Learning Protection Signatures for Known Vulnerabilities	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.)
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G)
Machine Learning Protection Signatures for Known Vulnerabilities	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, STP, SQL, DNS, etc.) GO HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols Networking	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) [6] HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2 Support for VLAN, Link Aggregation & Trunking (LACP)
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols Networking Client Support	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) [G] HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2 Support for VLAN, Link Aggregation & Trunking (LACP) Support for Windows, Linux, Mobile Apps (Android or iOS), Web (Java Applet)
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols Networking Client Support Authentication	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2 Support for VLAN, Link Aggregation & Trunking (LACP) Support for Windows, Linux, Mobile Apps (Android or iOS), Web (Java Applet) Password, SAML / AD / LDAP / SSO, AAA, OAuth, MDM parameters (CPU, HDD, MAC, etc), 3 rd Party (via Webhooks)
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols Networking Client Support Authentication NAT & Routing	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2 Support for VLAN, Link Aggregation & Trunking (LACP) Support for Windows, Linux, Mobile Apps (Android or iOS), Web (Java Applet) Password, SAML / AD / LDAP / SSO, AAA, OAuth, MDM parameters (CPU, HDD, MAC, etc), 3 rd Party (via Webhooks) Support for client, server or full NAT, static routing for IPv4 & IPv6
Machine Learning Protection Signatures for Known Vulnerabilities VPN FEATURES (ADDITIONAL LICENSIN HTTP Protocols SSL/TLS Management Dynamic Routing Protocols Networking Client Support Authentication	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc Automatic learning counter measures and dynamic signature creation upon attack detection Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.) G) HTTP 0.9/1.0/1.1/2.0 with translation Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication also supported, proxy SSL/TLS connections BGP, OSFP, RIP v1, RIP v2 Support for VLAN, Link Aggregation & Trunking (LACP) Support for Windows, Linux, Mobile Apps (Android or iOS), Web (Java Applet) Password, SAML / AD / LDAP / SSO, AAA, OAuth, MDM parameters (CPU, HDD, MAC, etc), 3 rd Party (via Webhooks)

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