



STORMSHIELD

NETWORK SECURITY

STORMSHIELD ELASTIC VIRTUAL APPLIANCE



Deploy your cybersecurity with complete confidence
in your private or public clouds

63 Gbps

FIREWALL
PERFORMANCE

Trust

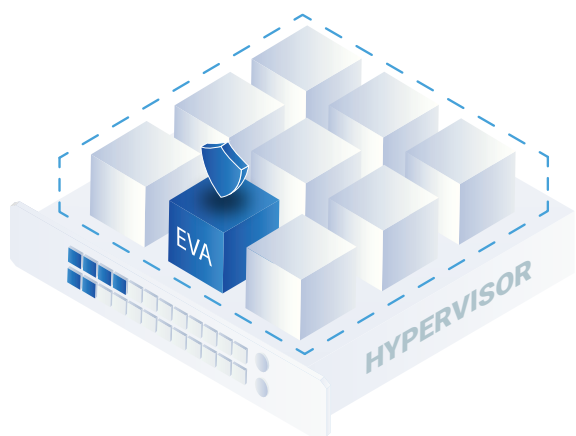
PUBLIC AND EUROPEAN
CLOUD

10.6 Gbps

IPSEC VPN
PERFORMANCE

Flexibility

AUTOMATIC
SIZING



Adapted to your needs

Elastic Virtual Appliance (EVA) solutions are scalable, adapting their capacities accordingly. They are available in the main public clouds (AWS, Azure, etc.) and in SecNumCloud-qualified clouds (3DS Outscale, Cloud Temple and OVHcloud), in compliance with the high standards set by the French national agency for information systems (ANSSI).



Protection of virtual environments

- Segmentation of virtual networks
- Secure site-to-site communications
- Protection of mobile accesses



Cost reductions

- Adaptation to the hypervisor's resources
- Optimum RAM and vCPU consumption



Portability

- Migration from one Cloud platform to another
- Wide range of environments supported (Microsoft Hyper-V, VMWare, KVM, Citrix, Microsoft Azure, Amazon Web Services, 3DS Outscale, OVHcloud, etc.)
- Back up, roll out, restore, enjoy

CITRIX®

vmware®

Microsoft
Hyper-V

KVM

Windows Azure

aws

3DS OUTSCALE

OVHcloud

PROXMOX

NEXT GENERATION UTM
& FIREWALL

PUBLIC, PRIVATE
& HYBRID CLOUD

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SIZING

| SYSTEM | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
|---|---------|---------|-----------|-----------|-----------|
| Memory (min - max, GB) | 2 | 2-3 | 3-6 | 6-8 | 8-64 |
| Max. number of vCPUs | 1 | 2 | 4 | 4 | 16 |
| Max. number of filtering rules | 1,024 | 2,048 | 4,096 | 8,192 | 8,192 |
| Max. number of objects | 5,000 | 5,000 | 5,000 | 5,000 | 20,000 |
| Max. size of user database | 2,048 | 2,048 | 5,120 | 5,120 | 10,240 |
| NUMBER OF USERS | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
| Firewall usage | 30 | 50 | 150 | 500 | 4,000 |
| NGFW usage (all features enabled) | 15 | 25 | 100 | 300 | 2,000 |
| NETWORK CONNECTIVITY | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
| Max. number of concurrent sessions | 200,000 | 400,000 | 1,000,000 | 1,500,000 | 5,000,000 |
| Max. number of static routes | 512 | 2,048 | 5,120 | 5,120 | 10,240 |
| Max. number of dynamic routes | 10,000 | 350,000 | 350,000 | 350,000 | 700,000 |
| 802.1Q VLAN | 128 | 256 | 512 | 512 | 1,024 |
| VPN | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
| Max. number of IPSec VPN tunnels | 200 | 500 | 750 | 5,000 | 10,000 |
| Max. number of SSL VPN clients in portal mode | 50 | 512 | 512 | 1,024 | 4,096 |
| Max. number of simultaneous SSL VPN clients | 100 | 150 | 200 | 250 | 500 |

The design values presented are the maximum limits of each model depending on the size of memory allocated to the Elastic Virtual Appliance product. Reduction of the allocated memory can affect the resources configured.

TECHNICAL SPECIFICATIONS

| PERFORMANCE* | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Firewall throughput (1,518 byte UDP) | 16.4 Gbps | 27 Gbps | 45 Gbps | 45 Gbps | 63 Gbps |
| IPS throughput (1,518 byte UDP) | 8.6 Gbps | 12.7 Gbps | 20 Gbps | 20 Gbps | 33 Gbps |
| IPS throughput (1 MB HTTP) | 5 Gbps | 8.5 Gbps | 12.7 Gbps | 12.7 Gbps | 14.5 Gbps |
| Antivirus throughput | 0.9 Gbps | 1.7 Gbps | 3.1 Gbps | 3.1 Gbps | 7.1 Gbps |
| IPSec throughput - AESGCM/SHA2 | 2.5 Gbps | 3.7 Gbps | 6.7 Gbps | 6.7 Gbps | 10.6 Gbps |
| New sessions per second | 44,000 | 74,000 | 93,000 | 93,000 | 112,000 |
| REDUNDANCY | EVA1 | EVA2 | EVA3 | EVA4 | EVAU |
| High availability (Active/Passive) | ✓ | ✓ | ✓ | ✓ | ✓ |

PLATFORMS SUPPORTED

Microsoft Hyper-V
Windows Server 2016,
2019 et 2022

VMware ESXi
Versions 7.0, 8.0

Linux KVM
Validated on RHEL 7, 8, 9

Citrix Hypervisor
Version 8.2 LTSR

Proxmox VE
Version 8

PUBLIC CLOUDS SUPPORTED

Public Clouds

Amazon Web Services
Microsoft Azure
OVHcloud
3DS Outscale

SecNumCloud-qualified clouds

Cloud Temple
OVHcloud
3DS Outscale

FEATURES

USAGE CONTROL

Firewall/IPS/IDS mode - Identity-based firewall - Application detection and management - Microsoft Services Firewall - Industrial firewall/IPS/IDS - Industrial application control - Detection and control of the use of mobile terminals - Geolocation (countries, continents) - Dynamic Host Reputation - URL filtering - Transparent authentication (Active Directory, SSO Agent, SSL, SPNEGO) - Agent-based multi-user VDI authentication (Citrix, TSE) - Guest and sponsorship mode authentication, webservices - Host Checker - Zero Trust Network Access (ZTNA).

PROTECTION FROM THREATS

Intrusion detection and prevention - Protocols autodetection and compliancy check - Application inspection - Protection from denial of service attacks (DoS) - Protection from SQL injections - Protection from Cross-Site Scripting (XSS) - Protection from malicious Web2.0 code and scripts (Clean & Pass) - Trojan detection - Detection of interactive connections (botnets, Command & Control) - Protection from data evasion - Advanced management of fragmentation - Automatic reaction to attack (notification, quarantine, block, QoS, dump) - Antispam and antiphishing: reputation-based analysis, heuristic engine - Embedded antivirus (HTTP, SMTP, POP3, FTP) - SSL decryption and inspection - VoIP protection (SIP) - Collaborative security: IP reputation, Cloud based Sandbox on the European territory (option).

CONFIDENTIALITY

Site-to-site or nomad IPSec VPN - Post Quantum Resistant - Remote SSL VPN access in multi-OS tunnel mode (Windows, Android, iOS, etc.) - SSL VPN agent with automatic configuration (Windows) - Support for Android/iPhone IPSec VPN.

NETWORK - INTEGRATION

IPv6 - NAT, PAT, transparent (bridge)/routed/hybrid modes - Dynamic routing (RIP - OSPF - BGP) - Multicast - Multiple link management (balancing, failover) - Multi-level internal or external PKI management - Multi-domain authentication (including internal LDAP) - Explicit proxy - Policy-based routing (PBR) - QoS management - DHCP client/relay/server - NTP client - DNS proxy-cache - HTTP proxy - Spanning-tree management (RSTP/MSTP) - SD-WAN, Multifactor Authentication (MFA).

MANAGEMENT

Web-based management - Interface with privacy mode (GDPR compliancy) - Object-oriented security policy - Contextual security policy - Real-time configuration helper - Rule counter - Connected or disconnected security updates - Global/local security policy - Embedded log reporting and analysis tools - Interactive and customizable reports - Support for multiple syslog server UDP/TCP/TLS - SNMP v1, v2c, v3 agent - IPFIX - Automated configuration backup - External storage (option) - Open API - Script recording.

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Non-contractual document. The features mentioned are for version 4.x.

* Performance is measured in a laboratory and under conditions ideal for version 4.x. Results may vary according to the test conditions and the software version.

* The technical specifications of the virtual environment measured are: Intel Platinum 8168 24C@2.7GHz CPU and Intel XL710 network adapters - VMware vSphere 6.7 - SR-IOV enabled.