

Product and Solution Overview



Intelligence²

Intersecting Human and Artificial Security Intelligence as a Force Multiplier in Enterprise Defense



1 Hillstone Product Portfolio

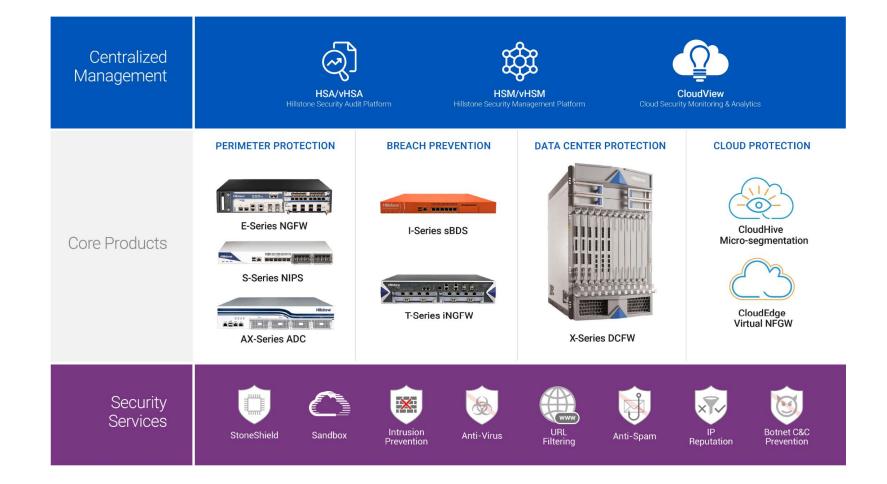
2 Key Technologies and Solutions



Hillstone Product Portfolio



Hillstone's Product Portfolio





Perimeter Protection



E-SeriesNext-Generation Firewalls (NGFW)



S-Series
Network Intrusion Prevention
System (NIPS)



AX-SeriesApplication Delivery
Controller (ADC)



E-Series: Next-Generation Firewalls

- Full-concurrence, High-performance Architecture
- Fine-granular & Multi-dimensional Control
- High Efficient L2-L7 Full Security Protection
- Advanced Networking Features
- Comprehensive Security Report





S-Series: Network Intrusion Prevention System

- Unparalleled threat protection without performance compromise
- Granular reporting with user targeted viewpoints
- Ease of deployment and centralized management
- High Availability without network Interruption





AX-Series: Application Delivery Controller (ADC)

Improved system availability through comprehensive load balancing and health check



Best user access experience based on improved server / bandwidth efficiency, and optimized application performance



Effortless IPv6 migration and SSL offloading performance guaranteed HTTPS upgrading



End-to-end secure application delivery





Intelligent Breach Prevention



T-SeriesIntelligent Next-Generation Firewalls (iNGFW)



I-Series
Sever Breach Detection System (sBDS)



T-Series: Intelligent NGFW







Complete Risk/Threat Visibility Besides Traffic/Apps/Users

Complete Kill Chain Mapping

Rich Forensic Information on Advanced Threats

Immediate Mitigation

Industry Best Threat Intelligence Feeds

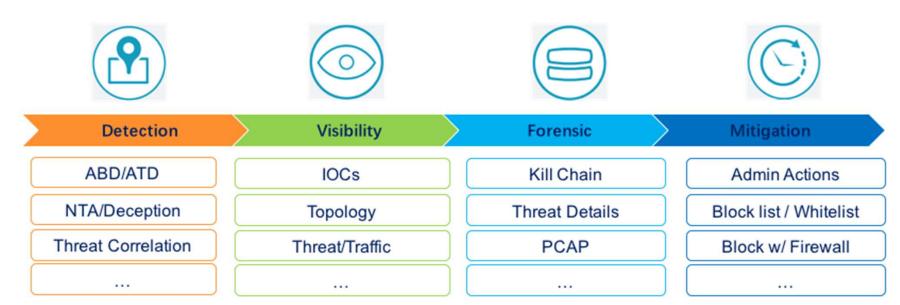


I-Series: Hillstone Server Breach Detection System





Hillstone Post-Breach Detection Solution to Protect Critical Servers from Advanced Threats





Datacenter Protection



X-7180





X10800

Data Center Next-Generation Firewalls



Hillstone Data Center Firewall: X-7180





- Customers
 - Carriers, Large Enterprises, Higher Education & Government, Managed Security Service Providers
- Deployment Scenarios
 - Carrier MAN and Mobile
 - Carrier IDC, Government Cloud Data-Center
 - > Data Center or University Campus Internet Exit

- High Performance
- Carrier-Grade Reliability
- Low Power Consumption
- Unique Twin-Mode Firewall
- Massive Virtual Firewall for MSSPs
- Comprehensive NAT/IPV6 Support
- Rich L2-L7 Security Functionality



X9180 at a Glance







Product Name: SG-6000-X9180

Product: 7U, front panel 6 horizontal slots, rear panel 4 vertical slots, 4 power supplies, 20 fans, maximum power 2300W

Performance: 500 Gbps throughput, 5.4M new sessions per second, 240M concurrent sessions, IPSec 150G, IPS 200G

HA: Carrier grade reliability at 99.999%; support twin-mode HA deployment for redundant data centers

Architecture: Fully distributed architecture; same HW & SW architecture with X10800 can use X10800 expansion modules

HW highlights: Fully redundant architecture; front and rear air supply; 100GE interface; support future upgrade and expansion

Software features: 3000+ applications identification and control, tens of millions of URL filtering; support up to 1000 vSys



X10800 at a Glance







Product Name: SG-6000-X10800

Size: 18U

Performance: 1.2 Tbps throughput, 10 million new sessions per second, 480 million concurrent sessions

Processing capability: 2 times more than X7180

Architecture: Same as X7180 platform, scalable to 7 Tbps in the future

HW highlights: Front and rear air supply, 100GE interface, switching Module redundancy, and 12 full-width slots

Software features: application identification and control, IPS, URL filtering and antivirus



Cloud Protection



Security Solution for Network Function Virtualization (NFV)



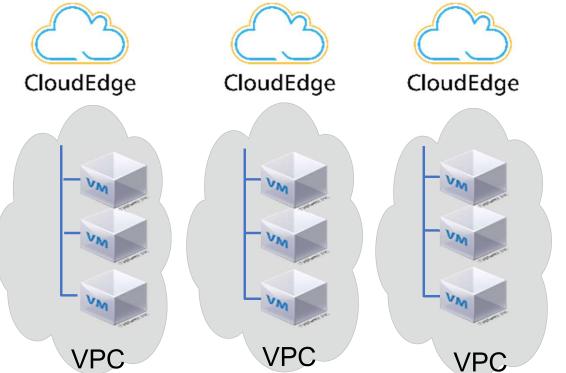
Micro-Segmentation Solution for Virtualized Data Centers



CloudEdge: Virtual NGFW





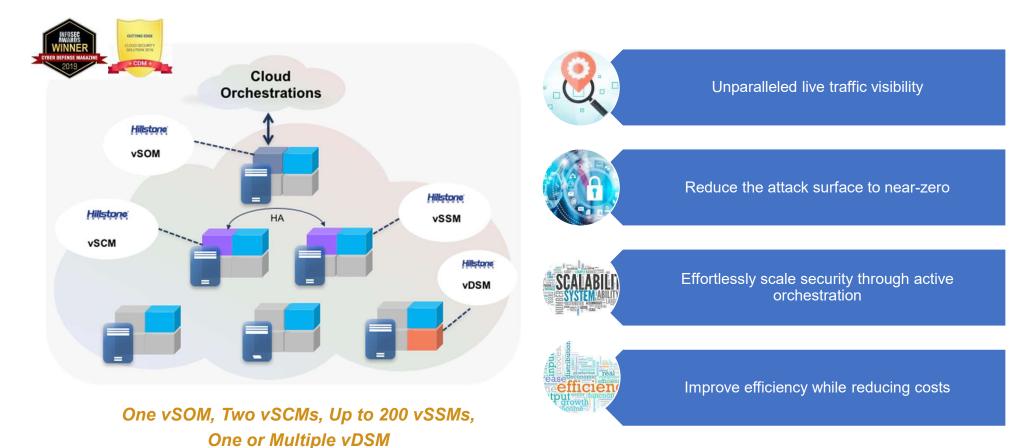


North-South Traffic Protection for tenants

- NAT, Access Control, Attack Defense
- Application control
- IPS
- URL Filtering
- VPN
- Antivirus
- Cloud-Sandbox...



CloudHive: Micro-Segmentation for Cloud





Centralized Management



HSM/vHSM
Hillstone Security
Management Platform



CloudView
Cloud Security Monitoring &
Analytics



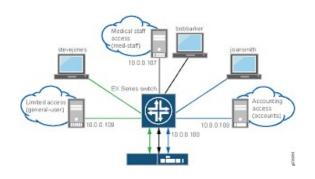
HSA/vHSAHillstone Security Audit Platform



HSM: Centralized and Efficient Management

Hillstone Security Management Platform (HSM) A Centralized Management, Configuration and Monitoring Solution







Centralized Device Management

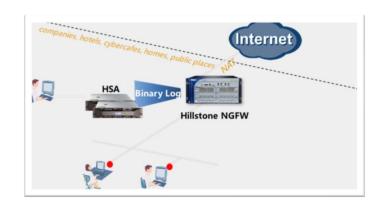
Centralized Policy Configuration

Centralized Security Monitoring

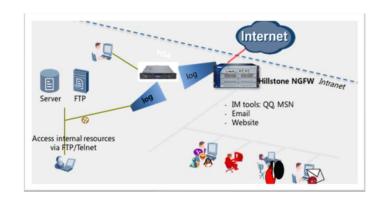


HSA: Take Control of Your Security Posture

Hillstone Security Audit Platform (HSA) A centralized logging, analytics and reporting solution



Forensics – NAT Tracking



Network Behavior Monitoring







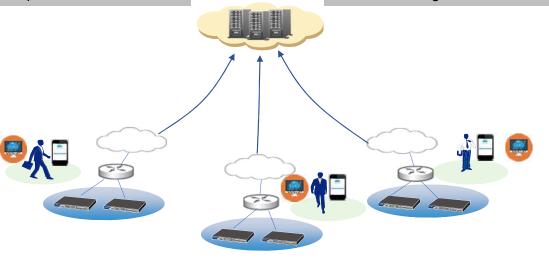
Centralized Device Monitoring

- · System/threat monitoring
- Device license status and renewal
- Cloud inspection



Threat Analysis and Alarm

- Threat and event logs
- · Comprehensive reports
- · Real-time message and alarms
- Threat intelligence



Real-time Monitoring

- 24/7 monitoring and alerts
- · Threat analysis and reports
- Mobile/web access

Ease of Deployment

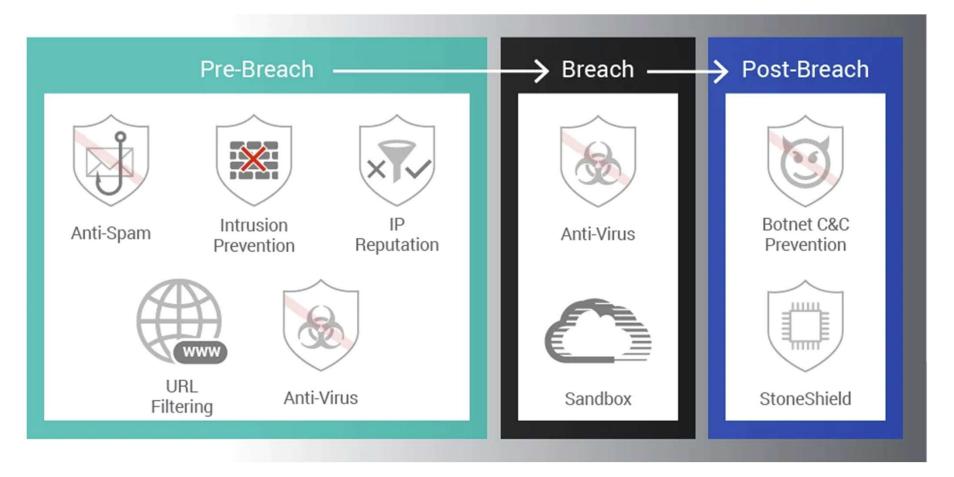
- No deployment required
- No maintenance
- Easy and instant subscription

Low/Flexible Investment Options

- Free to initiate (Includes essential features)
- Pay to subscribe (For advanced features, Professional Version)
- Security as a Service (SaaS)



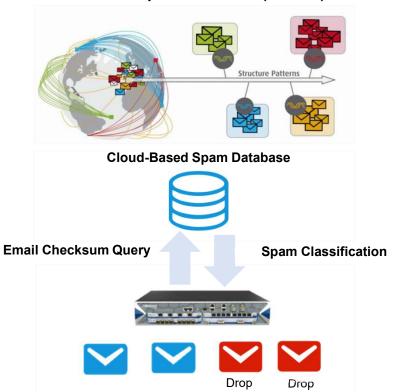
Security Subscription Service





Anti-Spam - Real-time Spam Classification and Prevention

Global Spam Collection (Partner)



Hillstone Anti-Spam Key Features

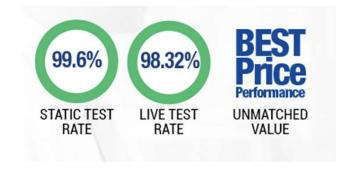
- Real-time Spam Classification and Prevention
- Support Spam Classification: Confirmed Spam, Suspected Spam, Bulk Spam, Valid Bulk
- Regardless of the language, format, or content of the message
- Works on both SMTP and POP3 email protocols
- Inbound and outbound detection
- White lists to allow emails from trusted domain



IPS: Unparalleled Protection at the Best Value

- Top IPS Detection Rate
 - 99.6% blocking rate of static exploits from the NSS exploit library
 - 98.32% blocking of live exploits in NSS lab test

 Lower False Positives with a patented high-performance detection engine and advanced threat breeds offered in conjunction with leading technology partners



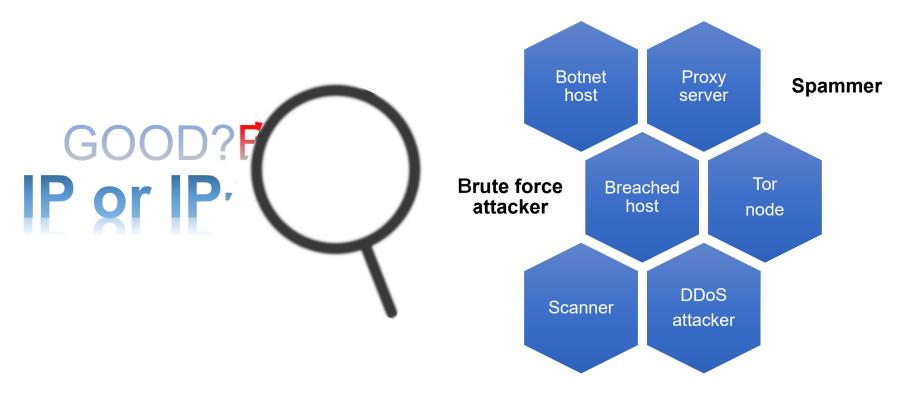




IP Reputation

IP Reputation is the threat intelligence classification based on IP.

It evaluates and classifies the risky IPs.





URL Filtering: Dynamic Web Filtering

- Flow-based web filtering inspection
- Dynamic web filtering with cloud-based real-time categorization database
- Over 140 million URLs with 64 categories
- Additional web filtering features

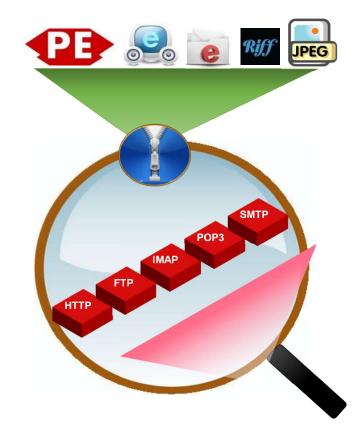


ategory List	Blocked Category List
stegory	
bortion and pregnancy ictors and models	Category
Ads	Adult
Adult dating Alcohol	Chats
Arts	Gambling
Astrology Blogs and Forums	Games and toys
Books or comics Business and services	Hacking
Bypass protection	Music
CDN Celebrity gossip	Nonsense and time waste
Classifieds	Phishing
Community and society	Porn
Cooking and food Depress domain	Sports
Depress page	Warez



Antivirus: Effectively Detects and Blocks Malwares

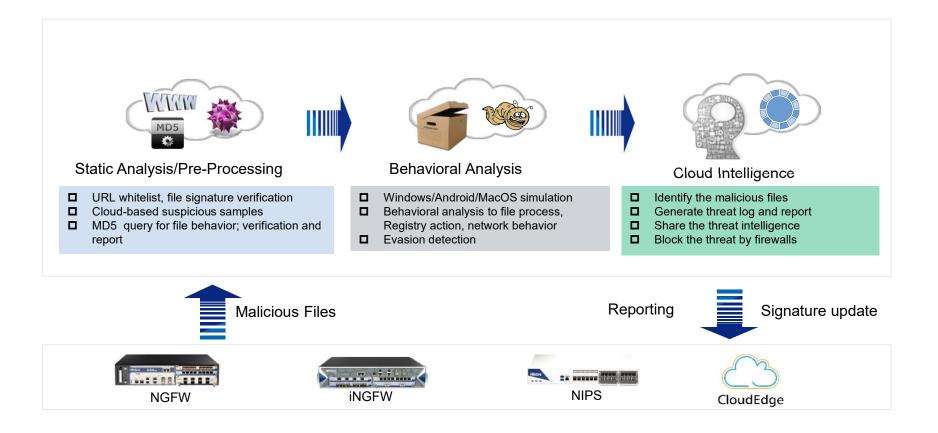
- High performance, low latency
- Virus detection on various file transmission protocols: HTTP, HTTPS, SMTP, POP3, FTP, IMAP4
- Virus detection on various file types: RAR, ZIP, GZIP, BZIP2, TAR
- Support for compressed file virus scanning
- 3.2 million virus signature library
- Forensics





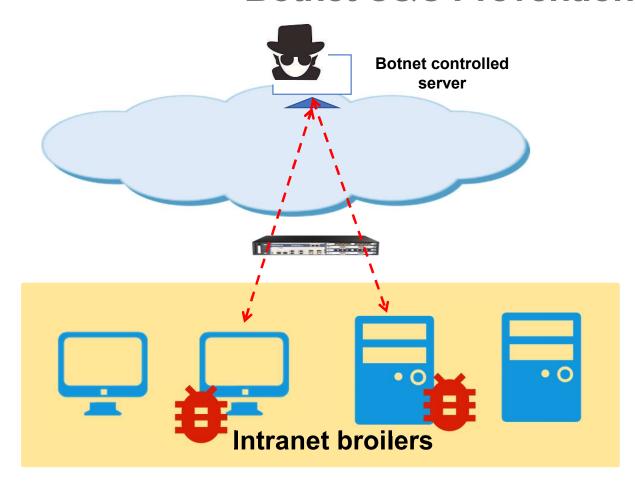
Cloud Sandbox

- Near Real-time Prevention and Cloud Intelligence





Botnet C&C Prevention



- Effectively discover intranet broilers and prevent further attacks of advanced threats through comparison of information obtained with the C&C address database
- Regular Botnet server address updates
- C&C IP and domain detection methods
- TCP, HTTP, and DNS detection support
- IP and domain whitelist design

Note: Base 5.5R5F2



StoneShield: ABD and ATD

Unique Detection Engine I Abnormal Behavior Detection (ABD) Engine

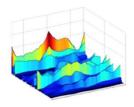
Engine



Behavior Learning & Modeling

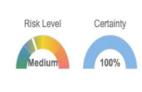
- Host/server behavior modeling by adaptive machine learning
- Layer 4-7, hundreds of behavior

Abnormal behavior Analysis



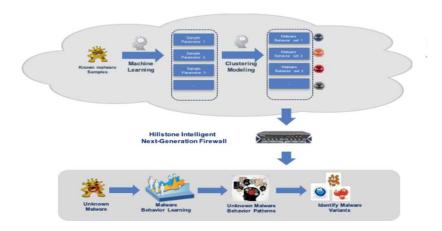
- Real time Behavior Model and rules
 Identify abnormal dimensions by behavior.
- Identify abnormal dimensions by behavior partnering

Threat & Risk Identification



- Quantitate risk severity and certainty by correlation analysis
- Threat forensics including suspicious and relevant PCAP

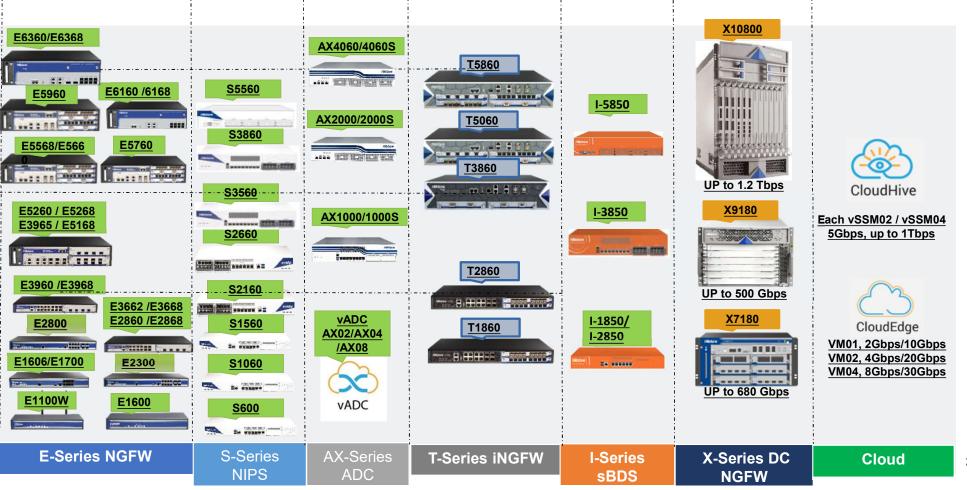
Unique Detection Engine II Advanced Threat Detection (ATD) Engine







Portfolio: Performance Matrix





Key Technologies and Solutions



Hillstone Key Technologies

Al-powered Intelligent Breach Prevention

- Abnormal Behavior Detection and Network Traffic Analytics
- Advanced Malware Detection Algorithm
- Advanced Threat Correlation Analytics
- Complete Cyber Kill Chain Mapping



Protect Cloud Data Centers Inside Out

- Terabit Performance and High Scalability
- Innovative Twin-Mode HA
- Unparalleled Visibility into East-West Traffic
- Complete L2~L7 Security Protection



Secure SD-WAN for Distributed Enterprise



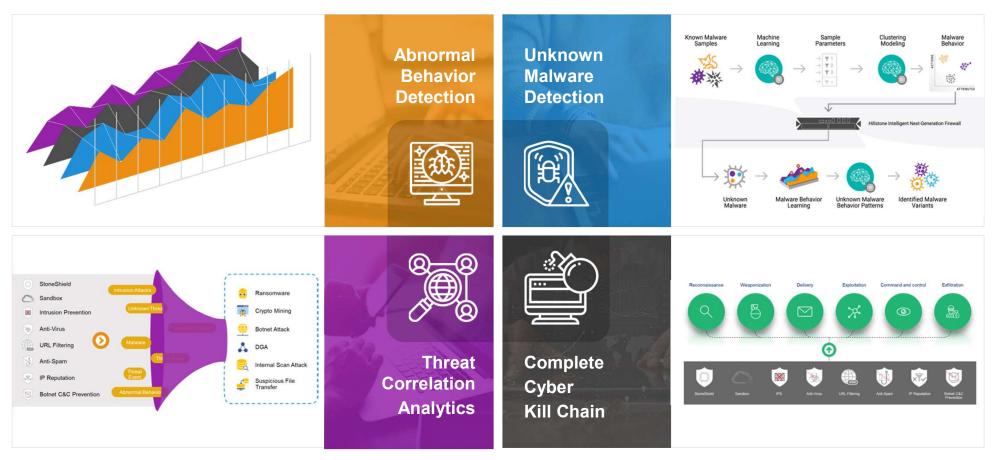
- Built on Security Foundations
- Centralized Mgmt. w/ Effortless Provision
- Intelligent Multilink Mgmt. & Optimization
- Seamless & Comprehensive Encryption



Al-powered Intelligent Breach Prevention



Al-powered Intelligent Breach Prevention





Abnormal Behavior Detection (ABD)



Behavior Learning and Modeling



Abnormal Behavior Analytics



Threat and Risk Identification

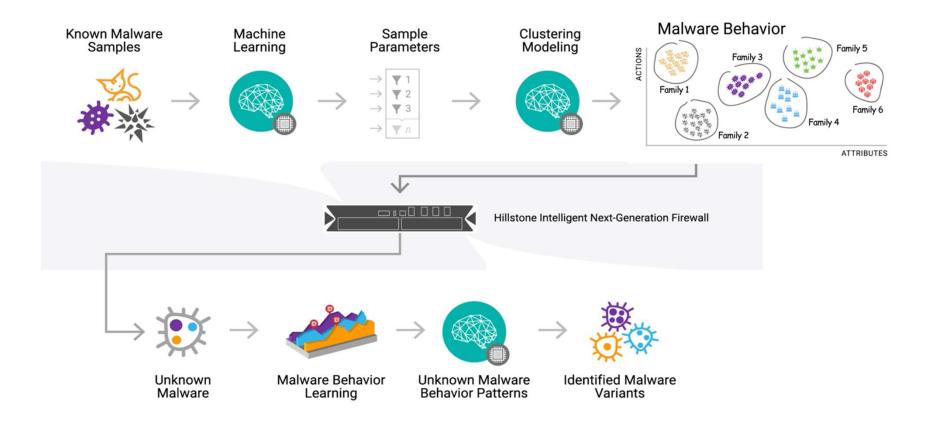
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- Layer 4-7, hundreds of behavior dimensions

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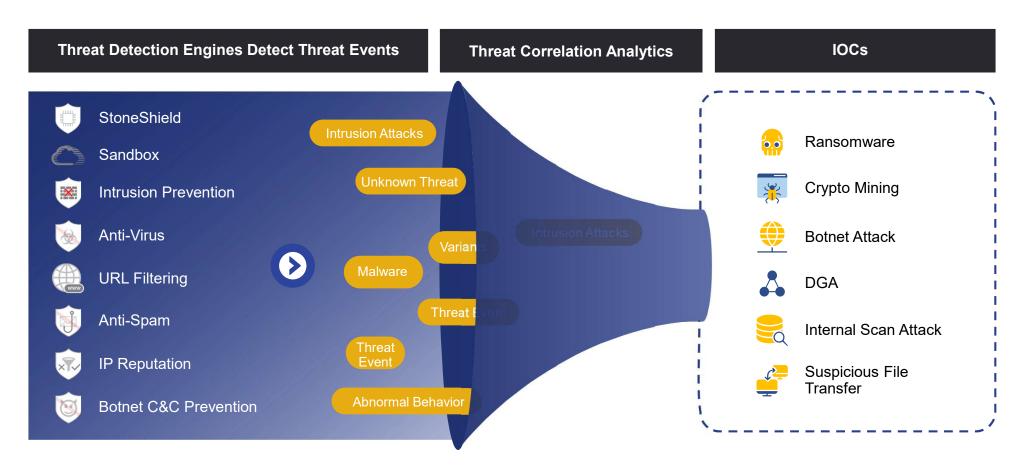


Advanced Threat Detection (ATD)



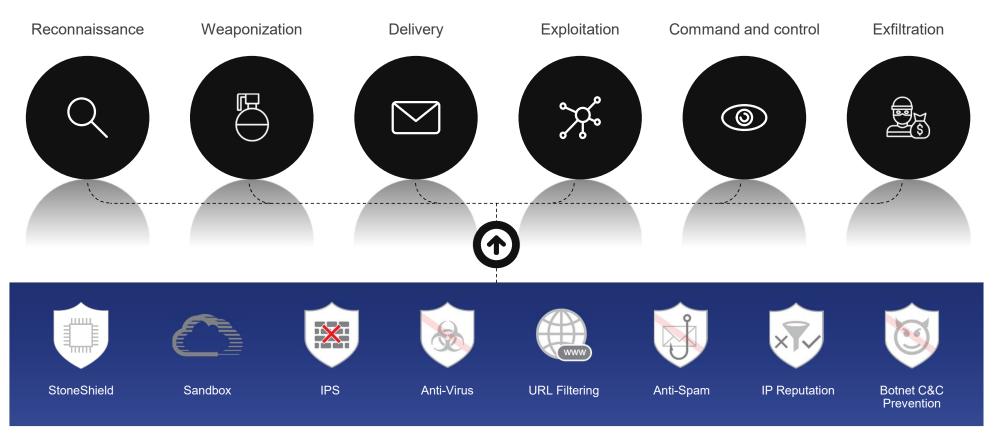


Indicator of Compromises (IOCs)





Complete Kill Chain Detection





Hillstone Intelligent Breach Prevention Offerings

Hillstone NGFW



Comprehensive Threat Detection and Prevention with Granular App Control

6 Years

in Gartner Magic Quadrants for Enterprise Network Firewalls Hillstone sBDS

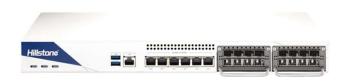


Detects Advanced Threats Targeting
Critical Servers and Hosts

Representative Vendor in

Gartner Market Guide for NTA

Hillstone NIPS



Intrusion Detection and Prevention with Best Efficacy and Performance

Representative Vendor in

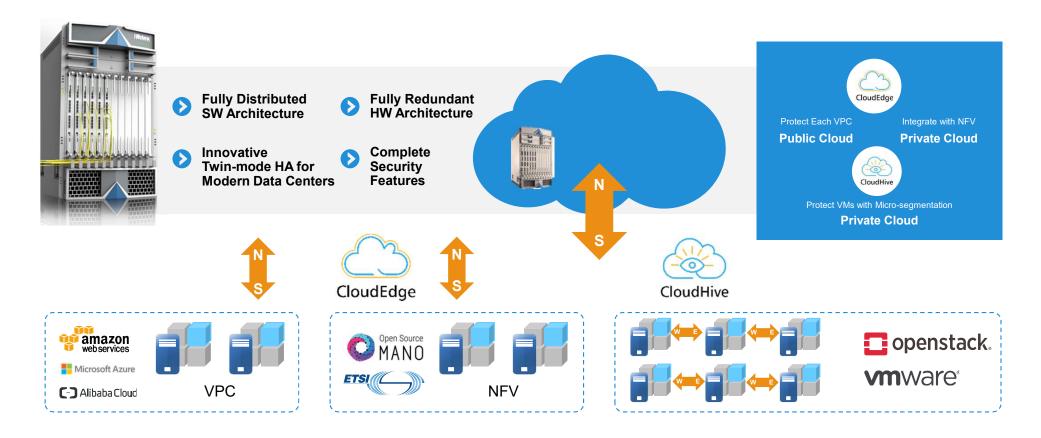
Gartner Market Guide for IDPS



Protect Cloud Data Centers Inside Out



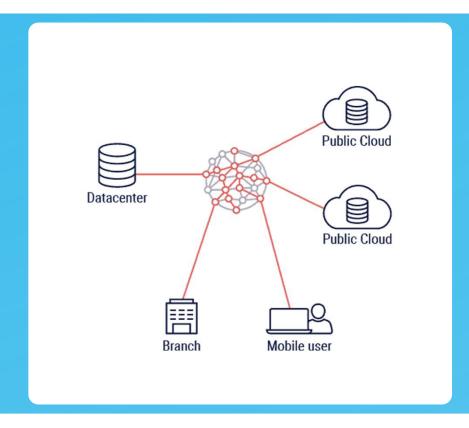
Protect the Cloud Data Center Inside Out





Security Challenges in Data Center Perimeter

- Will firewalls become the bottleneck for network performance?
- How do you secure applications running in the data center?
- How do you guarantee secure remote access?
- Can security easily scale up with the need for more performance?





Future Proofed Architecture for Data Center Perimeter Protection









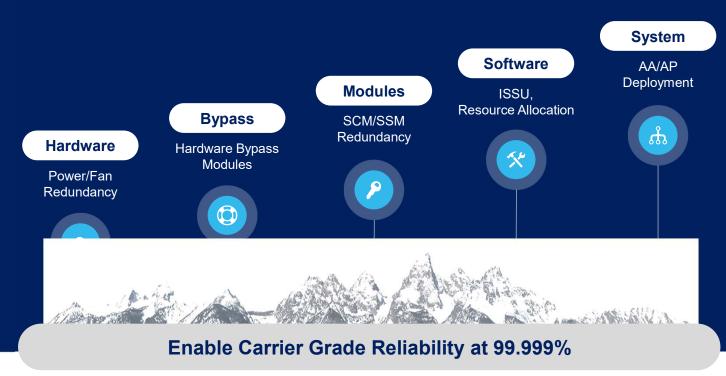


Complete L2-L7 Security Features



Carrier Grade High Reliability







Hillstone X-Series Value Proposition

Guaranteed business continuity of modern data centers



Security scales up with performance growth



Complete L2~L7 security protection



Energy Efficiency

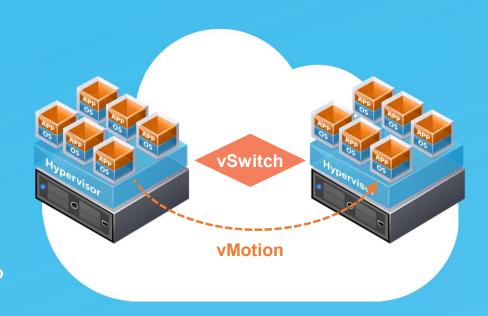




Security Challenges inside Data Center

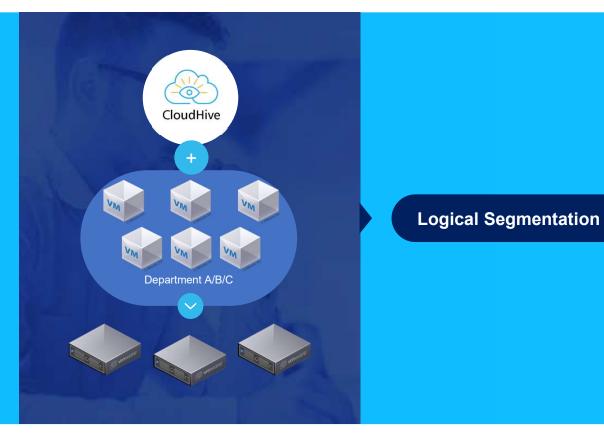
Large amounts of VMs Vanishing perimeters VMs move frequently

- Need east-west traffic visibility.
- How to protect lateral movement?
- Can security scale easily inside the cloud?





Micro-Segmentation for Virtualized Data Center





Segment applications between different departments without physical/logical network changes



Comprehensive Protection

Application Control

3000+

Application identification







Intrusion **Prevention**

+0008

IPS signatures



Antivirus

Real-time Updated

Virus and malware detection







Network Attack Defense

Attack Defense

Anti-DoS/DDoS, protocol anomaly





User Control

Authentication

Combined with AD authentication account



VM/Port Group Protection

Automatic IP address change





URL Filtering

140+ Million

Dynamic URL filtering





Firewall

Application policies, NAT, DNS, VPN, etc.



Recognized by Industry Analysts

Hillstone CloudHive



Protects Each VM with Comprehensive East-West Traffic Visibility

Representative Vendor in

Gartner Market Guide for CWPP

Gartner.

Market Guide for Cloud Workload Protection Platforms

Published 14 April 2020 - ID G00716192 - 33 min read

Protection requirements for cloud-native applications are evolving and span virtual machines, containers and serverless workloads in public and private clouds. Security and risk management leaders must address the unique and dynamic security requirements of hybrid cloud workloads.

Overview

Key Findings

■ Enterprises using endpoint protection platform (EPP) offerings designed solely for protecting end-user devices (e.g., desktops,



Hillstone CloudHive Value Proposition

Unparalleled live traffic visibility



Fine grained protection for virtualized workload



Effortlessly scale security through active orchestration



Improved efficiency while reducing TCO

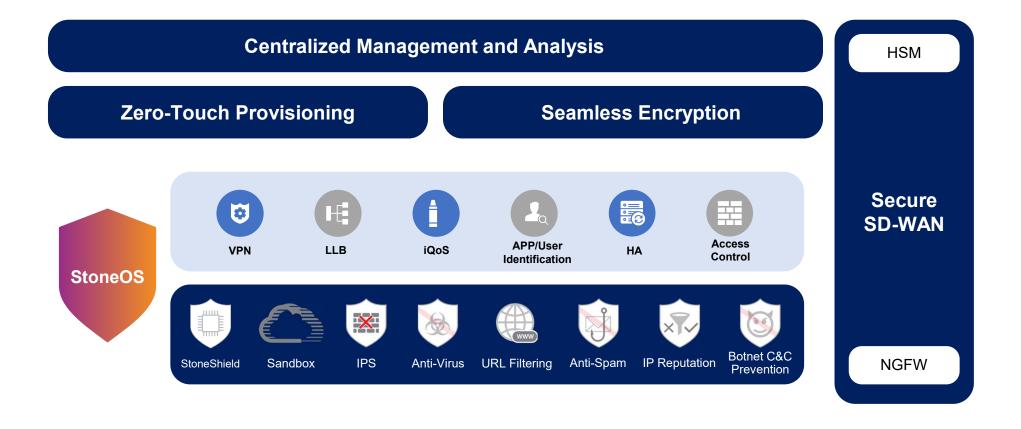




Secure SD-WAN for Distributed Enterprise

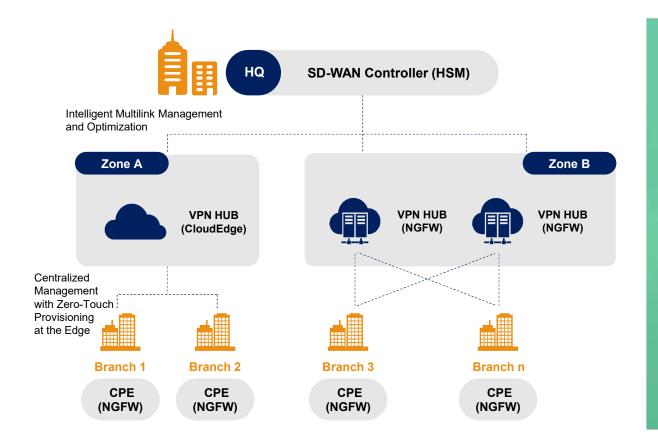


Hillstone Integrates SD-WAN with Security





Secure SD-WAN for Distributed Enterprises



Solution Highlights

Zero-Touch Provisioning

Seamless and Comprehensive Encryption

Award-Winning Enterprise-Grade Security Foundation

Centralized Management and Analysis

Value Propositions

Fast and flexible business launch

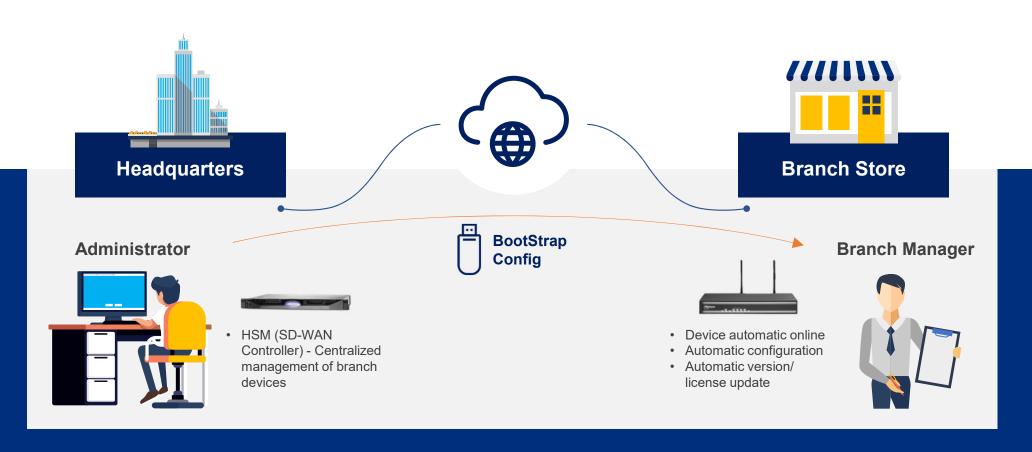
Efficient operation enabled by automation

End-to-end security protection

Greatly reduced cost with limited maintenance needs

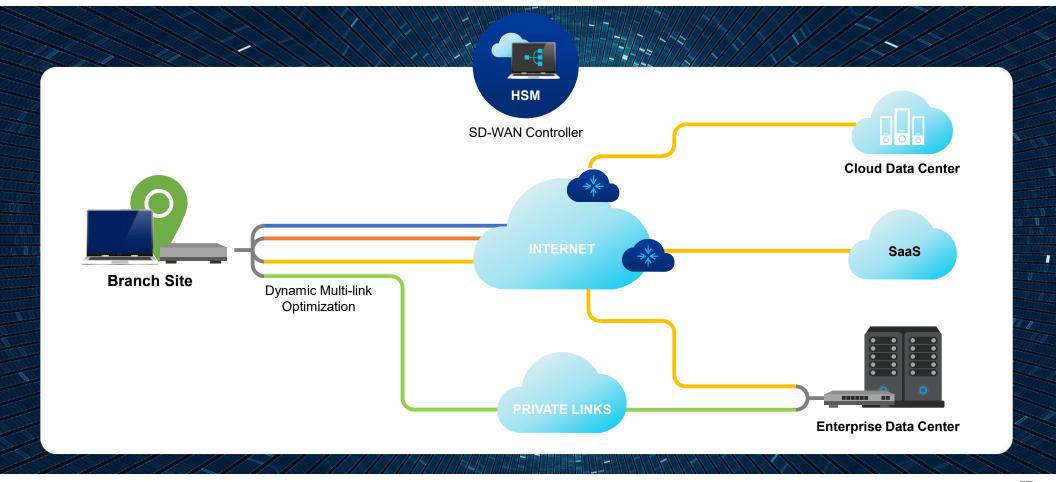


Zero Touch Provisioning Simplifies Branch Onboarding



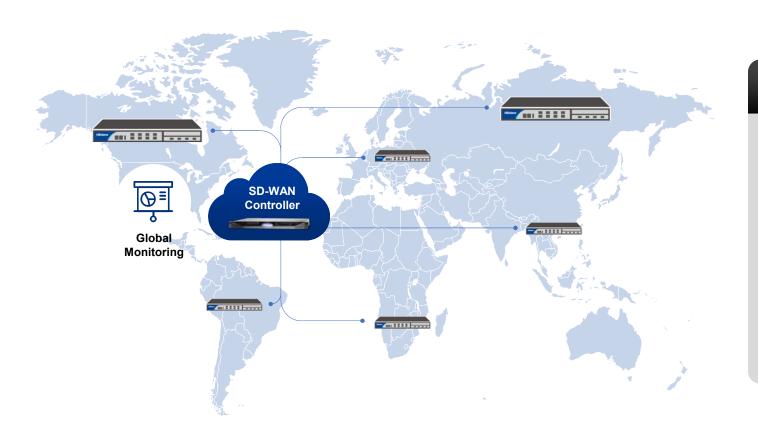


VPN over Multiple Links with Intelligent Routing





Centralized Management and Monitoring



Centralized

VPN Network Deployment

Security Policy Management

Monitoring of Devices and Links



Comprehensive Protection

Intrusion Prevention

Application Control [] [] []



3000+ Application identification

Network Attack Defense



Attack Defense

Anti-DoS/DDoS, protocol anomaly

User Control

8000+ IPS signatures



Authentication Combined with AD authentication account

URL Filtering



140+ Million Dynamic URL filtering

Anti-Spam



SMTP & POP3

Real-time classification and prevention

Antivirus



Real-time Updated

Virus and malware detection

VM/Port Group Protection



Automatic IP address change



Sandbox



Multiple protocols & file types

Complete behavior analysis

Firewall



Hillstone Secure SD-WAN Highlights

Zero Touch Provisioning

· No branch IT support needed

Multiple Links

• 3G, 4G LTE, 5G, Broadband, DSL, etc.

Intelligent Routing

· Policy-based routing

Centralized Management

Application-based routing

Natively Secure

- Automated failover
- VPN network
- Security policies

· Complete security - Firewall, URL Filtering, AD, AV, IPS, etc.





Security that Works!



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