

Cloud Data Centers Security Gateway USG9500



Overview

In the dawn of cloud computing age, the cloud computing based on virtualization and high-speed network is considered as a revolution of the Internet. However, challenges arise to network security in the implementation of cloud computing and cause concerns.

- How can we control mass access in the cloud computing age?
- How can we ensure border security for cloud data centers?
- How can we ensure the security of dynamic virtualization in the cloud?

The USG9500 is a security gateway developed for organizations deploying cloud data centers such as cloud security providers, enterprises hosting next generation data centers, and organizations with large-scale core data networks. USG9500 delivers the impressive performance, dedicated security and dynamic policies required for a dynamic cloud IT environment. Organizations with large-scale data centers can enjoy the benefits of increased capacity, high reliability and flexibility made possible by cloud and have peace of mind with the cloud security enabled by the Huawei USG9500.

Product Features

The Power to Harness the Big Cloud: impressive performance

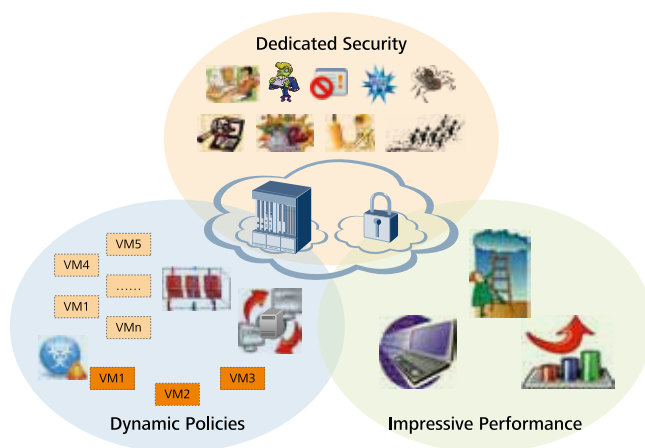
- Provides a maximum of 16 slots with strong scalability. A single device provides 960 Gbps IMIX firewall throughput, 960 Gbps DDoS performance.
- Supports a maximum of 960 million concurrent connections, supporting a large number of concurrent online users.
- Supports a maximum of 12 million new connections per second, ensuring excellent user experience in burst access scenarios.

The Intelligence to Protect the Cloud: dedicated security

- Supports professional NAT solution, greatly improving the public network address reuse rate. Supports multi-exit intelligent routing, and address traceability.
- Ensures high detection ratio, and low false negatives and false positives based on the advanced IPS technology.
- Processes IPS services respectively on independent boards, which does not affect the firewall forwarding performance. In addition, professional protection is implemented.
- Provides comprehensive IPv6 attack defense capability and IPv6 transition solution, ensuring the security and smooth upgrade during the transition from IPv4 to IPv6 networks.

The Agility to Adapt to the Cloud: dynamic policies

- Support maximum 4096 virtual firewalls, virtual resource allocation, massive clients access, and data center security operation under virtual environment.
- Supports the virtualized IPS function, protecting the virtualized data and services from threats.
- Supports virtual IPsec VPN access, ensuring the security of the cloud pipelines.
- Supports dynamic policy floating, ensuring security in the virtualized dynamic environment.



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Specifications

Model	USG9520	USG9560	USG9580
Hardware			
Expansion slot	3 (SPU + LPU)	8 (SPU + LPU)	16 (SPU + LPU)
MPU (Main Processing Unit)	2, support HA		
SPU (Service Processing Unit)	Firewall SPU, IPS SPU, etc.		
LPU Port Type	12 x 1 GE (SFP/RJ45), 1 x 10 GE (XFP), 20 x GE (SFP), 2 x 10 GE (XFP), 4 x 10 GE (XFP) 5x10GE(XFP)		
Function			
Basic function	Supports basic functions such as application-layer protocol identification, application specific packet filter (ASPF), access control, state monitoring, address translation, whitelist and blacklist, virtual firewall, security zones, and server load balancing.		
NAT/CGN	support NAT functions such as NAT44, NAT64, DS-Lite, 6RD, full-cone NAT, NAT ALG, NAT Server, NAT log etc.		
IPS	Defends against worms, zero-day attacks, Trojans horses, and malware.		
IPSec VPN	Supports manually configured key, PKI (X.509), IKEv2, redundant VPN gateway, and EAP authentication.		
DDoS attack defense	Defends against various DoS and DDoS attacks, such as SYN flood, ICMP flood, UDP flood, DNS query flood, connection flood, HTTP flood, and HTTPS flood, and those at the application layer.		
Routing feature	IPv4: static routing, RIP, OSPF, BGP, and IS-IS etc. IPv6: RIPng, OSPFv3, BGP4+, and IPv6 IS-IS etc.		
Deployment and reliability	Supports the transparent, routing, and hybrid mode. Supports the active/active and active/standby backup modes and dual MPU switchover.		
Dimensions, Power Supply, and Operating Environment			
Dimensions (H x W x D)	DC: 6.9 x 17.4 x 25.6 in. AC: 8.7 x 17.4 x 25.6 in.	DC: 24.4 x 17.4 x 25.6 in. AC: 27.9 x 17.4 x 25.6 in.	DC: 55.9 x 17.4 x 25.6 in. AC: 62.9 x 17.4 x 25.6 in.
Weight	DC: Full chassis: 70.5 lbs (32 kg) AC: Full chassis: 92.5 lbs (42 kg)	DC: Full chassis: 248.9 lbs (113 kg) AC: Full chassis: 295.5 lbs (134.2 kg)	DC: Full chassis: 504.3 lbs (229 kg) AC: Full chassis: 597.7 lbs (271.4 kg)
AC power supply	90 V AC to 275 V AC, 175 V AC to 275 V AC is recommended.		
DC power supply	-72 V to -38 V, rated -48 V		
Maximum power consumption	DC: 1330 W AC: 1368 W	DC: 3038 W AC: 3231 W	DC: 5824 W AC: 6195 W
Operating temperature	Long-term operating: 0°C to +45°C, Storage: -40°C to 70°C		
Operating humidity	Long term: 5% RH to 85% RH, non-condensing Storage: 0% RH to 95% RH, non-condensing		