

Security Appliance

SecHTTP

The SecHTTP is a secure HTTP (Web) server based upon the well-known Apache Web server. SecHTTP can be used as a regular static or dynamic web server using dynamic scripting languages like PHP or Perl. SecHTTP is highly configurable and extensible with third-party modules.

SecHTTP can also provide SSL connection to ensure strong and performant encryption to the web traffic. SecHTTP can perform high-level authentication (SecureID, LDAP, ...) to Web applications.

SecHTTP is designed for maximum network uptime and security by integrating all HTTP server functionalities over a Conostix standard component -SecCORE- which is composed of a secure Operating System, a local Firewall, a local IDS (Intrusion Detection System), MAC (Mandatory Access Control) and a High Availability module.

The system can be easily managed from a standard Web browser or via a SSH tunnel.

Key features

- HTTP 0.9/1.0/1.1 compliant
- High encryption level (128 bit SSLv3) between client browser and SecHTTP
- Clients authentication methods : Basic authentication, X509 client certificates, LDAP, SecureID, TACACS+, Radius, Oracle 7&8, PostgreSQL, mSQL, Windows NT, NDS
- Multiple virtual hosting (either name-based or IP-based)
- Server Side Includes (SSI)
- Automatically compress HTTP (GZIP

algorithm) to browsers that can handle compression to optimize bandwidth usage

- Rules based URL filtering (HTTP method, URI, query string, body content) to add security at the application level
- Unlimited flexible URL rewriting and aliasing (rules based)
- Can add, replace, merge or remove HTTP request and response headers
- Highly configurable and extensible with third-party modules
- Extensive logging facilities in W3C format (customize)
- Managed from a standard Web browser or from encrypted SSH tunnel

System security

SecCORE is the standard component base for all security appliances offered by Conostix. As most important functionalities can be considered the secure hardened operating system (SecOS), high-availability (HA Mod) and packet filtering (SecFW).

SecOS is a hardened operating system derived from Linux. SecOS is optimized for packet forwarding and handling of these packets. SecOS adds a lot of standard security features like :

- Local IDS to detect file change, configuration change and malicious activities
- MAC (Mandatory access control) at the operating system level by standard (control of each file, process, tcp port...)
- Stripped operating system with no additional libraries and binaries.

The High-Availability module (HA Mod) provides network redundancy and fail-over for all services running on the appliance. The module uses High-Availability IP routing services. The HA Mod is compliant to VRRPv2 (RFC2338). It provides dynamic fail-over of IP addresses from

one appliance to another in the event of failure.

SecFW is a standard firewall solution running on SecOS. Firewalling is running on every security appliance and not only on a central point. SecFW is a stateful inspection firewall and provide customize extensive logging.



The appliance

Dimension :

- Compact 1U rack-optimized
- 1.70"H x 24"L x 16.75"W

Standard :

- Intel Quad core 2 processor
- 1024 DDR2 1
- 2 x 10/100/1000 BT network adapters
- 2 x 73 GB HDD SAS
- 24X DVD/RW
- Floppy drive
- SVGA, Serial RS232C port, PS/2 keyboard/mouse connectors

Optional :

- Up to 4 GB SDRAM 133 Mhz
- Up to 2 Quad Ethernet 10/100/1000 BT cards
- RAID controller

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