



astaro

security linux

Astaro Security Linux™ V4

Securing the Internet

Astaro® specializes in affordable enterprise level security solutions for protection against hackers, viruses and other risks associated with communicating across the Internet.

Astaro Security Linux is a fully integrated software solution that provides superior performance in an all-in-one Firewall. Including a hardened operating system, stateful packet inspection, Spam, Surf and Virus Protection, content filtering, application proxies and IPSec based VPN, Astaro Security Linux provides a powerful all-in-one solution addressing today's security issues. Astaro Security Linux is designed to maximize your networks security without compromising its performance. It enables telecommuters, branch offices, customers and suppliers to safely share critical business information.

	Firewall
	VPN
	Virus Protection
	Surf Protection
	Spam Protection
	Wireless Security

- **Affordability** allowing companies of all sizes the ability to implement a powerful and scalable security solution
- **Manageability** and ease-of-use of all security components through *WebAdmin™*, Astaro's intuitive administration tool
- **Proven technology** and innovative solution, based on Open Source Software developed by leading specialists and accepted worldwide as the most secure platform
- **Hassle free installation** with all components on one CD, achieving simple implementation and integration into existing network environments
- **Unwavering commitment to customer service**

How Astaro Security Linux can benefit your organization:

- Astaro's Up2Date service automatically updates the system against the latest security risks
- Hassle-free, secure user access to the internet, via a robust stateful packet inspection firewall
- IPSec/PPTP VPN access for remote users, LAN to LAN or Client to LAN
- High level data encryption with AES (Rijndael), 3DES, Blowfish or Twofish
- Remote system management, monitoring (via SNMP or Syslog) and alert notification
- Easy remote administration via WebAdmin (SSL secured)
- Application level security, using DNS, HTTP, POP3, SMTP and SOCKS proxies

- E-mail virus protection, inbound and outbound (POP3, SMTP)
- Improved performance (up to 50%) via built-in caching support to frequently accessed web sites
- Integrated traffic monitoring and reporting tools
- High Availability utilizing primary and hot standby concepts for non-stop, 7x24 operations
- Load Balancing for achieving optimal traffic distribution and loading of target resources
- PPPoA/PPPoE support for ease of use and integration with DSL devices and networks
- URL Content Filtering preventing access to undesired internet sites
- Active user community at www.astaro.org

About Astaro

Astaro specializes in affordable Internet security solutions for protection against hackers, viruses and other risks of connecting to the Internet. Using Open Source Software as a base, Astaro is supporting the platform that has established new technical and economic standards. Astaro is committed to providing easy-to-manage, cost-effective solutions for their clients critical security issues. With offices in Europe and the United States, Astaro Security Linux is distributed by a worldwide network of partners who offer local support for the installation and maintenance of our world-class security solution. Today, Astaro Security Linux is one of the most popular Internet security solutions on the market and is deployed in more than 60 countries and 10,000 installations worldwide.

Technical Specifications

Firewall

- Stateful Packet Inspection Firewall
- Security Proxies for HTTP, HTTPS, SMTP, POP3, DNS, IDENT, SOCKS
- User Authentication (Local User Database or remotely via Radius, Windows NT/2000/XP, Microsoft Active Directory, LDAP, Novell Directory Services)
- User definable Service and Network Groups, standard services are predefined
- DoS Protection (ICMP flood, TCP SYN flood, UDP flood, Smurf, Trinoo, IP Spoofing)
- Portscan Detection

System Management

- Remote Administration via WebAdmin (128-bit encrypted)
- System and Pattern Updates via Internet (PGP secured)
- Logging via Syslog, SNMP, ASCII, WELF (WebTrends format)
- IP Accounting
- Out-of-band Management via External Modem
- SelfMonitor for maximizing Uptime
- Network Diagnostic Tools
- Complete Configuration Backup and Restore
- Predefined Reports
- Hot Standby (via Serial/Ethernet, synchronizes configuration)
- Optional: Configuration Management with Astaro CM

IPSec VPN

- Net-to-Net, Host-to-Net, Host-to-Host
- NAT Traversal, Virtual IP
- Authentication via passphrase (PSK), certificates (X.509v3) or keys (RSA)
- PKI Management of X.509 certificates
- Algorithms via AES (Rijndael), 3DES, Blowfish, Twofish, Serpent, MD5, SHA1 or SHA2
- Deflate Compression
- Perfect Forward Secrecy (PFS)
- Dynamic firewall settings per IPSec connection/IPSec user
- Option: Astaro IPSec Client (for MS Windows PCs)

PPTP VPN

- Host-to-Net
- MPPE 40/128-bit Data Encryption
- MSCHAPv2 Authentication
- Radius authentication for PPTP user
- Dynamic firewall settings per PPTP user

Content Filter

- Web Code Filter for dangerous contents (e.g. ActiveX)
- Web Privacy Filter (e.g. Cookies, Web Bugs)
- Spam Protection (extensive toolkit)
- User definable string filters for HTTP/SMTP/POP3
- Transparent encryption of SMTP traffic (TLS)
- Optional: Virus Protection for SMTP/POP3 (daily updated virus scanner)
- Optional: Surf Protection for HTTP (daily updated URL list), Black/White List

Networking

- 10/100 and 1000 (Gigabit) MBit Ethernet adapters
- DSL connections via PPPoE and PPPoA (PPTP)
- Wireless LAN Ethernet (802.11b) in client and access point mode
- Multiple IP addresses per adapter with Virtual IP or VLAN (802.1q)
- Dynamic and Static Network Address Translation (NAT)
- H323, PPTP and FTP Passthrough
- Load Balancing (Round-Robin, Least Used Connection)
- DHCP Client and Server
- Randomized TCP Sequencing
- Proxy ARP

Quality of Service/Traffic Shaping

- Hierarchical Token Bucket (HTB)
- Prioritize Traffic by Network, Service, Protocol

Hardware Recommendation

- minimum Pentium II or compatible CPU
- 128 MB RAM
- 8 GB IDE or SCSI HDD
- Bootable CD-ROM Drive
- PCI Ethernet Networkcards (up to 20 NICs, up to 4,000 Virtual LANs)

Throughput with a 1266 MHz CPU

- 730 MBit/s Packet Filter
- 115 MBit/s IPSec VPN
- 6,000 E-mails/hour (10KB E-mails) with Virus Protection

Offices

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