



# VPN TECHNOLOGIES cc

*Connecting you anywhere anytime*

CC 1999/012869/23

## **Introduction**

Founded by Jaco Lange in February 2004, VPN Technologies is an information technology consulting company that has its foundation established on professionalism and integrity. The company firmly believes in honest trading and highly values the trust of its clients.

The company strives to provide a personal technical service that is dependable and consistent and economically viable. It aims to deliver sound advice and direction, backed by individuals who have more than 10 years of extensive knowledge and experience in their relevant fields. These individuals have good reputations and references within the marketplace.

## **Services**

The company covers the following aspects of IT: -

- Design and implementation of Local and Wide area networks and Internet connectivity.
- Networking support for servers and workstations i.e. hardware, software installation, maintenance, administration and troubleshooting.
- Aspects of security covered include firewalling, routing, intrusion detection systems, remote dial-in access, VPN connectivity, vulnerability assessments, virus and spyware detection, removal and prevention.
- Redundancy and hardware fail-over for mission critical servers.
- Service level agreements (SLA's) for clients desiring quicker response times and the 'peace of mind' that the general up keep of the network infrastructure is maintained and is frequently monitored to ensure minimum downtime.
- Auditing and inventories of software and hardware.
- The installing of legal evaluations of software to provide "try before you buy" scenarios to avoid disillusionment.
- Quoting and purchasing of hardware, software and peripherals.
- Other personalized recommendations that differ from network to network.

## Products

1. **LINUX** The Linux Firewall is a 3 port high performance Linux Iptables Firewall, incorporating broadband connectivity and VPN functionality, see Attachment (a)
2. **MailScanner** is already a highly-respected open source e-mail security system, with more users than AOL and Hotmail combined, and this new release increases its stability and performance. It processes 500 million e-mail messages every day, removing 2 million viruses and identifying 75 million spam messages. MailScanner is used at 20,000 sites around the world protecting top government departments, commercial corporations and educational institutions. See Attachment (b)
3. **BackupPC** is a high-performance, enterprise-grade system for backing up Linux and WinXX PCs and laptops to a server's disk. BackupPC is highly configurable. See Attachment ©
4. **VOIP - Elastix** is an appliance software that integrates the best tools available for Asterisk-based PBXs into a single, easy-to-use interface. It also adds its own set of utilities and allows for the creation of third party modules to make it the best software package available for open source telephony. The goals of Elastix are reliability, modularity and ease-of-use. These characteristics added to the strong reporting capabilities make it the best choice for implementing an Asterisk-based PBX.
5. **Novell GroupWise 8** combines the widest possible range of collaborative tools in a truly plugged-in work environment. E-mail, instant messaging, calendaring, contacts and task management have all been significantly enhanced while retaining the familiarity that helps current GroupWise users upgrade effortlessly. Nothing else plugs you into the Web 2.0 world as thoroughly as GroupWise 8 or makes it look so good and so easy once you're there.

## Qualifications

Certifications and experience existing within the company and its associated partners include Cisco, Microsoft, Novell, Hp Compaq, Linux as well as a number of other market related vendors.

## Service Level Agreements

The two-fold vision of VPN Technologies towards the SLA client would be to assess the unique requirements of the company, then implement and maintain a policy that the client and consultant understand and are comfortable with. Secondly, the consultancy commits to maximizing the potential that information technology has to offer both to the professional image and productivity of the client. This would be reviewed regularly to ensure that the customers IT environment is synergetic with the evolving IT industry.

The company will endeavor to: -

- Respond in a favorable time frame to urgent problems or queries. (Priority levels exist for various scenarios)
- Attend to general customer requests.
- Take regular preventative maintenance steps to ensure that the stability, operability and proper functionality of the existing network infrastructure are maintained: -
- Drawing up of detailed network diagrams.
- Ensuring that the operational and application patch levels are current on servers and workstations. Installation of new hardware and software wherever required.
- The performing and testing of system reloads wherever deemed necessary.
- Validation of existing tape and hardware backups.
- Monitoring the mission critical systems hardware level (i.e. memory, hard drive, external peripherals etc)
- Implementing a strong security policy for the network and keeping it current.
- Reports can be generated on a monthly basis detailing the Internet activity and usage.
- Maintaining a set standard both in terms of hardware and software.
- Monitoring and isolating of viruses and spy ware.
- Certain hardware can be arranged if failure occurs on the network i.e. server's, routers, switches etc, tape streamers etc.
- Remote support offerings for general administration.
- An accurate log of visits will be kept.

## CLIENTS

- Bullbrand Foods, Contact Mr Sias Rabie
- Sabila Air & Sea JHB, Contact Mr Sven Weiswange
- Sabila Air & Sea DBN, Contact Mr Alvin Naidoo
- Sabila Air & Sea CPT, Contact Mr Len Penn
- Falcon Electronics, Contact: Mr Ian Booysen
- Mvela Phanda Construction, (Pty) Ltd, Contact: Mr Nillesh Bhima
- Emfuleni Local Council, Contact: Mr Paul Erenst
- Sedibeng District Council, Contact: Yusuf Chamda
- Midvaal Local Council, Contact: Mr Andre Mans
- CoreFreight (Pty) Ltd, Contact: Mr Jonathan Simms
- BVI Consulting Engineers, Contact: Mr Corniel van Wijk
- Berry & Donaldson, Contact: Mr Chris Lane
- CargoXchange, Contact: Mr Pedro Da Costa
- Huurkor (PTY.) LTD. Contact: Ben Bodenstein
- Du Plessis & Eksteen, Contact: Mr Thomas Stofberg
- Hydrotec, Contact: Hendry Bouwer
- Verref, Contact: Mrs Carina Dippenaar
- ProAdmin (PTY) LTD, Contact: Mr Wilhelm Jooste
- Sub contracting for NIT, Contact: Mr Herman Ploeger
  - Goscor
  - Esor Franki Africa
  - Electrahertz,
  - Morgan Group

# Linux Firewall

The Linux Firewall is a 3 port high performance Linux Iptables Firewall, incorporating broadband connectivity and VPN functionality.

## Features:

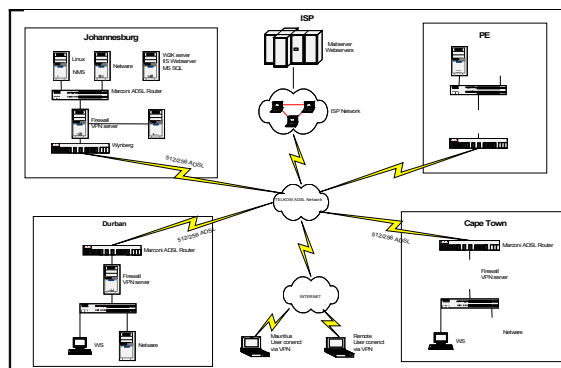
- Iptables firewall
- ADSL support
- Traffic graphs
- Transparent web proxy
- Web content filter
- DMZ support
- Dynamic DNS
- VPN – IPsec
- VPN Compression
- VPN triple-DES" encryption
- Dynamic DNS IPsec support
- VPN - PPTP
- L2TP & GRE tunneling
- Intrusion detection
- DHCP - client and server
- Traffic shaping (QoS)
- DNS proxying
- Unlimited users!

As more and more small businesses are discovering the benefits of high-speed connections to the Internet, they are also looking for ways to use the Internet as a way to communicate within their company. Instead of using leased-lines to connect remotely, the Internet is seen as the new medium to cost-effectively transmit company data. Using a public domain to send private data has severe security concerns and can create liabilities, especially when unethical persons use methods to read or "sniff" the valuable data being transmitted. An effective way to prevent private data from being read is to scramble or "encrypt" the data prior to being sent, and then unscrambling or "decrypting" the data at the intended destination.

Establishing this encrypting and decrypting methodology over the public Internet is known as setting up a Virtual Private Network, or VPN. The Firewall offers the ability to establish these VPN "tunnels", allowing for a company to provide secure access to intranet data over the internet, Further more the data in the VPN tunnel is compressed and thus maximizing the transfer speed. VPN Technologies offer cost-effective, scalable and secure networking solutions to meet your specific business needs. VPN Solutions offer clear benefits, including operational flexibility, easy customer access and therefore, improved service and streamlined sharing of information and business applications

## Hardware Requirements:

- Processor Pentium II 300 MHZ
- Memory - 256Mb
- 10 GB HDD
- WAN port - x10/100BaseT
- LAN port - 1x10/100BaseT
- DMZ port 1 x 10/100baseT



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# MailScanner

Spam (unsolicited commercial e-mail) accounts for 35% of all messages and is rapidly increasing. 1 in 150 messages contains a virus, costing many billions of dollars around the world every year.

MailScanner is already a highly-respected open source e-mail security system, with more users than AOL and Hotmail combined, and this new release increases its stability and performance. It processes 500 million e-mail messages every day, removing 2 million viruses and identifying 75 million spam messages. MailScanner is used at 20,000 sites around the world protecting top government departments, commercial corporations and educational institutions.

MailScanner scans all e-mail for viruses, spam and attacks against security vulnerabilities. It is not tied to any particular virus scanner, but can be used with any combination of 14 different virus scanners, allowing sites to choose the "best of breed" virus scanner. Being open source, site administrators can audit and verify the integrity of the system. Its role is a major part in the security of a network, and so it must act as a trusted service. The only way to achieve the required level of trust is to be open source, an approach the commercial suppliers are not willing to take. MailScanner has been developed in a world-leading Electronics and Computer Science Department at the University of Southampton.

MailScanner users SpamAssassin to identify SPAM, the spam-identification tactics used include:

- **header analysis:** spammers use a number of tricks to mask their identities, fool you into thinking they've sent a valid mail, or fool you into thinking you must have subscribed at some stage. SpamAssassin tries to spot these.
- **text analysis:** again, spam mails often have a characteristic style (to put it politely), and some characteristic disclaimers and CYA text. SpamAssassin can spot these, too.
- **blacklists:** SpamAssassin supports many useful existing blacklists, such as mail-abuse.org, ordb.org or others.
- **Razor:** Vipul's Razor is a collaborative spam-tracking database, which works by taking a signature of spam messages.

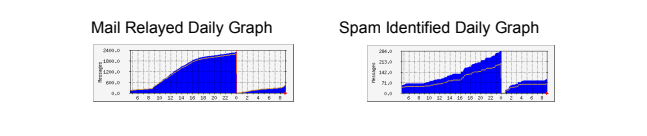
There are currently something in the order of 15,000-20,000 sites using MailScanner.

The entire email log can be viewed on a webpage

The screenshot shows the MailScanner web interface. At the top, there are statistics for the Mail Queue (Inbound: 0, Outbound: 18) and Today's Totals (Processed: 1126, Spam: 71, High Scoring Spam: 1, Viruses: 40, Top Virus: Worm.SomeFool.Gen-1, Blocked Files: 40, Others: 0). Below this is a table of the last 50 messages, with columns for Date/Time, From, To, Subject, Size, SA Score, and Status. A pie chart titled 'Top 10 Viruses' shows the distribution of detected viruses, with Worm.SomeFool.Gen-1 being the most common. Below the chart is a table listing the top 10 viruses and their counts.


Message ID	Date/Time	From	To	Subject	Size	SA Score	Status
[ ]	12/03/04	ipoop-user-admin@lists.sourceforge.net	shah@innovation.co.za	Re: [IPCop-user] Bandwidth monitoring	4.3Kb	-4.90	Clean
[ ]	12/03/04	owner-bb@bb4.com	jaco@innovation.co.za	RE: (bb) Using MRTG with BB	5.3Kb	-4.90	Clean
[ ]	12/03/04	gillan@jet.co.za	operations@morgangroup.co.za	Fw: 1151 Inv	41Kb	-0.36	Clean
[ ]	12/03/04	disco-owner@groupstudy.com	shah@innovation.co.za	Installing another OTG-E Blade on the Cisco Catalyst 6509 (7:05793)	3.1Kb	-2.40	W/L
[ ]	12/03/04	colin@morgangroup.co.za	hbossman@hotmail.com	71PW3QH3	327.9Kb	-3.86	W/L
[ ]	12/03/04	colin@morgangroup.co.za	hbossman@hotmail.com	71PW3QH3	327.9Kb	-3.86	W/L
[ ]	12/03/04	colin@morgangroup.co.za	herman@morgangroup.net	71PW3QH3	327.9Kb	-3.86	W/L
[ ]	12/03/04	colin@morgangroup.co.za	morganaire@eucelinet.net	71PW3QH3	327.9Kb	-3.86	W/L
[ ]	12/03/04	bourne-icallit-330822@webelits.com	jaco@innovation.co.za	[Safari] OT - Windows 2000/SP Open File Viewer	1.9Kb	-2.42	W/L
[ ]	12/03/04	owner-bb@bb4.com	jaco@innovation.co.za	Re: (bb) bbrelay question	3.8Kb	-4.90	Clean
[ ]	12/03/04	disco-owner@groupstudy.com	shah@innovation.co.za	Re: CISCO TAC (7:05773)	6.3Kb	-4.90	W/L
[ ]	12/03/04	owner-bb@bb4.com	jaco@innovation.co.za	Re: (bb) Using MRTG with BB	4.3Kb	-4.90	Clean
[ ]	12/03/04	bi@wibcofood-bgeaead@msg.fine-delta.com	herman@morgangroup.co.za	Free bath & body gift set!	7.1Kb	8.66	Spam
[ ]	12/03/04	disco-owner@groupstudy.com	shah@innovation.co.za	Re: CISCO TAC (7:05773)	5.6Kb	-4.90	W/L
[ ]	12/03/04	owner-bb@bb4.com	jaco@innovation.co.za	Re: (bb) Customized alert messages	5.8Kb	-4.70	Clean

Virus	Count
Worm.SomeFool.Gen-1	971
Worm.SomeFool.B-petite	434
Worm.SomeFool.D	102
Worm.SomeFool	42
Worm.SomeFool.Gen-2	41
Worm.SomeFool.B	16
Worm.SomeFool.B.2	14
Worm.Bagle.Gen-2ipwd	12
Worm.Globe.F.LPX.2	3
Worm.Klez.H	3



**Hardware Requirements:**

- Pentium 4 2 GHZ
- 512Mb RAM
- 40 GB Hard disk
- 1 X Network card



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- BackupPC is a high-performance, enterprise-grade system for backing up Linux and WinXX PCs and laptops to a server's disk. BackupPC is highly configurable
- A clever pooling scheme minimizes disk storage and disk I/O. Identical files across multiple backups of the same or different PCs are stored only once resulting in substantial savings in disk storage and disk I/O.
- One example of disk use: 95 laptops with each full backup averaging 3.6GB each, and each incremental averaging about 0.3GB. Storing three weekly full backups and six incremental backups per laptop is around 1200GB of raw data, but because of pooling and compression only 150GB is needed.
- Optional compression support further reducing disk storage. Since only new files (not already pooled) need to be compressed, there is only a modest impact on CPU time.
- No client-side software is needed. The standard smb protocol is used to extract backup data on WinXX clients. On linux clients, tar over ssh/rsh/nfs is used to backup the data. With version 2.0.0, rsync is also supported on any client that has rsync or ryncd.
- A powerful web (http/cgi) user interface allows administrators to view log files, configuration, current status and allows users to initiate and cancel backups and browse and restore files from backups.
- A full set of restore options is supported, including direct restore (via smbclient, tar, or rsync/rsyncd) or downloading a zip or tar file.
- Supports mobile environments where laptops are only intermittently connected to the network and have dynamic IP addresses (DHCP).
- Flexible configuration parameters allow multiple backups to be performed in parallel, specification of which shares to backup, which directories to backup or not backup, various schedules for full and incremental backups, schedules for email reminders to users and so on. Configuration parameters can be set system-wide or also on a per-PC basis.
- Users are sent periodic email reminders if their PC has not recently been backed up. Email content, timing and policies are configurable.
- Tested on Linux, Freenix and Solaris hosts, and Linux, Win95, Win98, Win2000 and WinXP clients.



## VoIP PBX

- Call recording with a Web interface to search recordings
- Voicemail and Voicemail-to-Email functionality
- Flexible IVR configurable by a Web Interface.
- Voice synthesis support
- Extension Batch Tool to create large numbers of extensions using CSV files.
- Integrated Echo Cancellor
- Phone provisioner, configurable via a Web Interface. Allows configuration of a large number of IP phones in a short time for supported phones.
- Support for video phones
- Hardware detection interface allowing quick & easy setup of a range of popular telephony hardware.
- Integrated DHCP server to dynamically assign IPs to the IP-Phones
- Operator panel. Monitor PBX activity via a graphical interface and perform call transfers and parkings by a simple drag-n-drop. \* Call parking allowing calls to be picked up at any extension.
- Call Detail (CDRs) report within you can search calls based on different criteria as date, extension number, etc
- Billing report from which you can filter by destination, source
- Report of channels used by technology (SIP, ZAP, IAX, Local, H323)
- Support for call queues including static and dynamic agents
- Conference Center. Allows setup of temporary scheduled conferences or static conference rooms via Web Interface \* Support the following protocols: SIP, IAX, H323, MGCP, SKINNY, etc
- Supported codecs: ADPCM, G.711 (A-Law &  $\mu$ -Law), G.722, G.723.1 (pass through), G.726, G.729 (through a commercial license), GSM, iLBC
- Support for analog interfaces as FXS/FXO (PSTN/POTS)
- Support for digital interfaces as E1/T1/J1 through protocols as PRI/BRI/R2
- Support for bluetooth interfaces through cell phones (chan\_mobile)
- Caller ID supported.
- Multiple Trunk support.
- Incoming and outgoing routes with support dial pattern matching which gives flexibility
- Follow-me support
- Support for ring groups
- Support for paging and intercom for supported IP Phones
- Support for call routing based on Time Conditions
- Support for PIN sets
- Direct Inward System Access (DISA) - Direct access to the PBX via External Line
- Callback \* Web based file editor to manually edit the Asterisk configuration files
- Web based interface to the Asterisk console called the CLI

## FAX

- Fax server based on HylaFax
- The fax functionality is administrable via Web
- Fax visor integrated. The faxes can be downloaded from the Web in PDF format \*
- Fax-to-email application
- The email template (from fax-to-email) can be customized
- Access control for fax clientes (white list)



## GroupWise 8

Novell® GroupWise® 8 raises the bar on user productivity with the first fully connected collaborative space for knowledge workers. Built for today's social enterprise networking, the highly connected, collaborative GroupWise 8 workspace leverages Web 2.0 resources to enhance every interaction. Access wikis and blogs right from your mailbox. Add favorite Web pages to your Home View panels. Publish your calendar inside and outside the enterprise, so anyone you work with can do a busy search on your time. Novell GroupWise 8 empowers you and your colleagues to reach new heights of personal productivity—connecting, communicating and collaborating to drive business success for your enterprise. GroupWise works the way you do.

