

[illegible]

6.3	API	22
6.3.1	Header file	22
6.3.2	Database loading	22
6.3.3	Error handling	23
6.3.4	Database structure	23
6.4	Database reloading	24
6.4.1	Data scan functions	24



8.5.8	QMVC - Qmail Mail and Virus Control	45
8.5.9	Sylpheed Claws	45
8.5.10	SoftlabsAV	45
8.6	<i>Graphical User Interface + ClamAV</i>	46
8.6.1	AVScan	46
8.6.2	BeClam	46
8.6.3	Clamaktion	46
8.6.1	ClamShell	46
8.6.5	ClamTk	46
8.6.6	clamXav	47
8.6.7	ClamWin	47
8.6.8	FETCAV	47
8.6.9	KlamAV	47
8.6.10	QtClamAVclient	47
8.6.11	wbmclamav	48

1 Introduction

Clam AntiVirus is an anti-virus toolkit for UNIX, designed for e-mail scanning on mail gateways. It provides a flexible and scalable multi-threaded daemon, and can be

downloaded from <http://www.clam-av.org>



HPUX 11.0

SCO UNIX

IRIX 6.5.20f

Mac OS X

BeOS

Cobalt MIPS boxes

Cygwin

Windows Services for Unix 3.5 (Interix)

Some features may not be available on your operating system. If youInterix4486 0 Td (are)Tj 18.1016 0 Td

```
yum update clamav  
or  
up2date -u clamav
```

Another very good repository is maintained by Dag Wieers: <http://dag.wieers.com/packages/clamav/>

PLD Linux Distribution

The RPM packages for the Polish(ed) Linux Distribution are maintained by Arkadiusz Miskiewicz (visit <http://www.pld-linux.org/>).

Mandrake

A RPM package for Mandrake is available on Mandrake's mirrors ande

forby

`//clamav.or.id/snapshot/`. Latest stable packages for Solaris 9 SPARC 64bit are available at <http://clamav.citrus-it.net>

AIX

The binary packages for AIX are available in AIX PDSLIB, UCLA
<http://aixpdslib.seas.ucla.edu/packages/clamav.html>

Mac OS X

There's a binary package available at <http://clamav.darwinports.com/clamXav> (see 8.6.6), a GUI for ClamAV running on MacOS X, is available at <http://www.markallan.co.uk/clamXav>

BeOS

BeClam is a port of ClamAV for the BeOS operating system. It includes a very simple GUI. Get it at <http://www.bebits.com/app/3930/>

MS Windows - Cygwin

ClamAV is a part of the official Cygwin port repository.

MS Windows - cygwin.dll based

All major features of ClamAV are implemented under Win32. using



3.3 Adding new system user and group

If you are installing ClamAV for the first time, you have to add a new user and group to your system: ³

```
# groupadd clamav  
# useradd -g clamav -s /bin/false -c "Clam AntiVirus" clamav
```

Consult a system manual if your OS has not *groupadd* and *useradd* utilities. The account should be locked in */etc/passwd* or

4 Configuration

4.1 clamd

If you are going to use the daemon, you have to edit the configuration file (in 6m Base clamd won't run):

```
$ clamd
ERROR: Please edit the example config file /etc/clamd.conf.
```

This shows the location of the default (configuration) file.

4.4 Setting up auto-updating

freshclad is the default database updater for Clad AntiV


```
const char *cl_retdbdir(void);
```

`cl_loaddb` loads selected database while `cl_loaddbdir` loads all databases from a `dirname` directory. `cl_retdbdir` returns a default (hardcoded) database directory path. After an initialisation an internal database representation will be saved under `root` (which must initially point to `NULL`) and a number of loaded signatures will be **added**⁷ to `virnum`. You can eventually pass `NULL` if you don't care about a signature counter. Both `cl_loaddb`

6.4 Database reloading

The most important thing is to keep the internal instance of the database up to date. You can watch database changes with the `cl_stat` functions family.

```
int cl_statinidir(const char *dirname,
```


CL_SCAN_MAILURL

The mail scanner will download and scan URLs listed in a mail body. This flag

should not be used on 6 25.885q102359erv 0 Td (77385q10235ers.0 Td (b49265q10235Due0 Td (b85


```
$ wget http://prdownloads.sourceforge.net/clamav/clamav-X.XX.tar.$  
$ wget http:
```

- Run
`cvs -d:pserver:anonymous@cvs.sourceforge.net:/cvsroot/clamav co clamav-devel`
- Visit <http://www.clamav.net/snapshot/>

I'm a MS Windows user. Can I

AMaViS-ng is

8.1.12 hMailServer

Homepage: <http://www.hmailserver.com/>

Supports: ClamAV

hMailServer is a free, open source e-mail server for Microsoft Windows. It supports all the common mail protocols and comes with a easy to use COM library that can be used for integration with external software. It also has supports for virtual domains, distribution a39 sClamAV,

8.1.17 MailScanner

Homepage: <http://www.mailscanner.info/>

Supports: clamscan

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

vuftw



8.1.28 qscanq

Homepage: <http://budney.homeunix.net:8080/users/budney/software/qscanq/>



8.1.37 smtpfilter

Homepage: <http://www.gtoal.com/spam/smtpfilter.c.html>

Supports: clamscan

smtpfilter is a filter for an SMTP session which passes the session through transparently in real time, except for the DATA command which is intercepted in order to scan the data



Softlabs AntiVirus is a generic anti-virus filter for incoming mail servers on Unix, running as plugin for procmail. In addition, it plugs to the Clam

8.6.6 clamXav

Homepage:

8.6.11 wbmclamav

Homepage: <http://wbmclamav.labs.libre-entreprise.org/>

Supports: ClamAV

wbmclamav

8.8.2 Local Area Security


Mirror	IP	Location	Administrator
clamav.mirrors.nks.net	24.73.112.74	Florida, USA	James Neal

Mirror	IP	Location	Administrator
clamav.univ-nantes.fr	193.52.101.131	France	Yann Dupont





Chris Conn <cconn*abacom.com>
Christoph Cordes <ib*precompiled.de>
Ole Craig <ol0*cs.umass.edu>
Eugene Crosser <crosser*rol.ru>
Calin A. Culianu <calin*ajvar.org>
Damien Curtain <damien*pagefault.org>
Krisztian Czako <slapic*linux.co.hu>
Diego d'Ambra <da*softcom.dk>
Michael Dankov <misha*btrc.ru>
Yuri Dario <mc6530*mclink.it>
David <djgardner*users.sourceforge.net>
Maxim Dounin <mdounin*rambler-co.ru>
Alejandro Dubrovsky <s328940*student.uq.edu.au>
James P. Dugal <jpd*louisiana.edu>
Magnus Ekdahl <mul515ebisilt.org>



Free Oscar <freeoscar*wp.pl>

Martin Fuxa

Robert Hogan <robert*roberthogan.net>

Przemyslaw Holowczyc <doozer*skc.com.pl>

Thomas W. Holt Jr. <tw*cohesive.net>

James F. Hranicky <jfh*cise.ufl.edu>

Douglas J Hunley <doug*hunley.homeip.net>

Kurt Huwig 0 0 1 188.184 698.62 Tm (<rober78.129 578.26 Tm (<kurt*iku-netz.de>)Tj /R47 11.9552

Fletcher Mattox <fletcher*cs.utexas.edu>

Serhiy V. Matveyev <matveyev*uatele.com>

Reinhard Max <max*surd36e>

Brian May <bam*debian.org>

Ken McKittrick <klmac*usadatanet.com>

Chris van Meerendonk <cvm*castel.nl>

Andrey J. Melnikoff <temnota*kmv.ru>

Damian Menscher <menscher*uiuc.edu>

Jasper Metselaar <jasper*formmailer.net>

Arkadiusz Miskiewicz <misiek*pld-linux.org>

Ted Mittelstaedt <tedm*toybox.placo.com>

Mark Mielke <mark*mark.mielke.cc>

John Miller <contact*glideslopesoftware.co.uk>

Jo Mills <Jonathan.Mills*frequentin.com>

Dustin Mollo <dustin.mollo*sonoma.edu>

Remi Mommsen <remigius.mommsen*cern.ch>

Doug Monroe <doug*planetconnect.com>

Alex

Wojciech Noworyta <wnow*konarski.edu.pl>

Jorgen Norgaard <jnp*anneli.dk>

Fajar A. Nugraha <fajar*telkom.co.id>

Joe Oaks <joe.oaks*hp.com>

Washington Odhiambo <wash*wananchi.com>

Masaki Ogawa <proc*mac.com>

John Ogness <jogness*antivir.de>

Phil Oleson <oz*nixil.net>

Jan Ondrej <ondrej*salstar.sk>

Martijn van Oosterhout <kleptog*svana.org>

OpenAntiVirus Team (<http://www.OpenAntiVirus.org/>)

Tomasz Papszun

Thomas Quinot <thomas*cuivod4ir.eu.org>

Ed Ravin <eravin*panix.com>

Brian A. Reiter <breiter*wolfereiter.com>

Didi Rieder <adrieder*sbox.tugraz.at>

Pavel V. Rochnyack <rpv*fsf.tsu.ru>

Rupert Roesler-Schmidt <r.roesler-schmidt*uplink.at>

David Sanchez <dsanchez*veloxia.com>

David Santinoli <david*santinoli.com>

Vijay Sarvepalli <vssarvep*office.uncg.edu>

Martin Schitter

Theo Schlossnagle <jesus*omniti.com>

Enrico Scholz

Adam Stein <adam*scan.mc.xerox.com>

Steve <steveb*webtribe.net>

Richard Stevenson <richard*endace.com>

Sven Strickroth <sstrickroth*gym-oha.de>

Matt Sullivan <matt*sullivan.gen.nz>

Dr Zbigniew Szewczak <zssz*mat.uni.torun.pl>

Joe Talbott <joseph*t*ystone.net>

Gernot Tenchio <g.tenchio*telco-tech.de>

Masahiro Teramoto <markun*onohara.to>

W Daniel Theodoro <dtheodoro*ig.com.br>

Ryan Thompson <clamav*sasknow.com>

Yar Tikhiy <yar*comp.chem.msu.su>

Andrew Toller <atoller*connectfree.co.uk>

Michael L. Torrie <torriem*chem.byu.edu>

Trashware <trashware*gmx.net>

Mattg6a8y c7 11.9552 Tf/czakM47 11.9552 Tf 1 0 0 1 106.2 482.02 Tm ()TR5 0i

Troy Wollenslegel <troy*intranet.org>

ST Wong <st-wong*cuhk.edu.hk>

Dale Woolridge <dwoolridge*drh.net>

David Wu <dyw*iohk.com>

Takumi Yamane <yamtak*b-session.com>

Youza Youzovic <youza*post.cz>

Leonid Zeitlin <lz*europa.com>

ZMan Z. <x86zman*go-a-way.dyndns.org>

Andoni Zubimendi <andoni*lpsat.net>

9.3 Donors

We've received financial support from: (in alphabetical order)

Activ



GANDI (<http://www.gandi.net/>)

Jeremy Garcia (<http://www.linuxquestions.org/>)

GBC Internet Service Center GmbH (<http://www.gbc.net/>)

Midcoast Internet Solutions

Mimecast (<http://www.mimecast.com/>)

Kazuhiro Miyaji

Bozidar Mladenovic

Paul Morgan

Tomas Morkus

The Names Database (<http://static.namesdatabase.com>)

9.4 Graphics

The authors of the nice ClamAV logo (look at the title page) and other graphics are Mia Kalenius and Sergei ~~Proin~~ `<sp*finndesign.fi>` from Finndesign <http://www.finndesign.fi/>

9.5 OpenAntiVirus

Our database includes ~~clnab~~ `<clnab>` database (about 57000 signatures) <http://OpenAntiVirus.org>

10 Authors

aCaB `<acab*clamav.net>`, Italy
Role: ~~clnab~~ database maintainer

Boguslaw Brandys `<bbrandys*clamav.net>`, Poland
Role: Win32 de

