

User Guide

VEXIRA SCAN DAEMON

1.3





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General information

The Vexira Antivirus ScanDaemon (hereinafter called scand daemon) provides an interface for the remote client program to utilize the full functionality of the virus scan engine through unix or internet socket. The package also includes a command line scanner client program (vascan).

To establish the connection between the scand daemon and its client(s) you have to set a common communication address. Use the 'address' option in the configuration file of the scand daemon to set this address.

When the client is started, it tries to connect to the scan daemon and if it fails it displays an error message.

Minimal system requirements

Supported operating systems

Linux i386/amd64
FreeBSD 5.5, 6.0/7.0 i386/amd64
Solaris 9 (5.9) sparc, 10 (5.10) i386

Minimal requirements

Requirements for all the platforms:

- 256 MB free memory
- 100 MB free HDD
- wget (for update)
- perl5 (for installation)

Requirements by platforms:

Linux, FreeBSD, Solaris 10 (5.10):
- Intel Pentium (or compatible) processor at 300 MHz
- Minimal required for Linux: GLIBC 2.2.5, kernel 2.2.1
- Minimal required Linux distributions: SuSE 8.0, RedHat 7.3,
Debian 3.0 (woody), Mandrake 9.0, Slackware 8.1

Solaris 9 (5.9):
- Ultra Sparc IIe processor at 500 MHz

Installation, uninstallation

The program is available in a tgz package:

Unpacking:

tar -xzf vascand-<version>-<platform>.tgz

Installation: **vascand-install.pl**

Uninstallation: **vascand-uninstall.pl**



Executable files

Parameters of the scandaemon

vascand [options]

Scan daemon binary file. Possible options:

-n, --nodaemon - no daemon mode (run in the console where started)
-v, --version - display the version of vascand and exit
-b, --build - display the version and build of vascand and exit
-c FILE, --config=FILE - read configuration from FILE
-p FILE, --pid_file=FILE - save the pid to FILE
-d FILE, --vdb_file=FILE - virus database descriptor file
-a ADDR, --address=ADDR - connect to ADDR
-k SEC, --conn_timeout=SEC - connection timeout in seconds
-r SEC, --read_timeout=SEC - read timeout in seconds
-w SEC, --write_timeout=SEC - write timeout in seconds

Parameters of Scan daemon init script (found in the /etc directory)

vascand [options]

start - start scan daemon
stop - stop scan daemon
restart - restart scan daemon
cfgreload - reload configuration file
vdbreload - reload virus database

Command line scanner client

vascan [options]

The available options are described below where the configuration file is detailed (vascan.ini).

Database update

You can update the virus database manually or automatically by the updater script found in the package.

The product uses incremental virus database update mechanism to keep the virus database up-to-date. The advantage of this method is that the program doesn't need to download the whole virus database file every time (its size is several MBs) but usually only a small additional database package including the virus signatures processed and released recently. Using this mechanism, the download time is decreased to a minimal level so we can release additional virus database packages several times a day to improve the defense. Users can obtain protection against new malware without spending long time and generating considerable network load for the update. The protection is available almost immediately after the signatures of the newly discovered viruses have been processed in our virus lab.

Automatic update

We create a script to automate the update process, it is in the /usr/bin directory (vas_vdbupdate.sh).



Execute it, it is going to download the virus database, copies it into the correct directory and activates it. Updating will only be performed, if the database available on the server is newer than one on your computer. Otherwise the database will be left unchanged.

To execute the script, you should enter the `vas_vdbupdate.sh` command. It is possible to use parameters, too:

```
-f, --ftp          uses FTP update source
-h, --http,       uses HTTP update source
-v, --verbose,    verbose mode
--help,          displays help
```

Example:

```
vas_vdbupdate.sh -v --http
```

It downloads the database from the HTTP source and the progress bar will be displayed.

To run the script, you need `wget` program! By the help of `cron`, you can schedule the script executing to be performed by half an hours. Register into `/etc/crontab`:

```
0,30 * * * * root /usr/bin/vas_vdbupdate.sh
```

Manual update

Our virus database-set consist of several files, you need to update all the files from our FTP server from the following folder and copy them to the virus database folder (`/var/lib/vexira`):

```
upd.vexira.com/pub12/vexira/vdb12/
```

You can activate the new database by the "`vascand vdbreload`" command.

Configuration files

----- Configuration file of Scan daemon (vascand.conf) -----

The configuration file stores the settings in hierarchical structure. The storing mechanism based on the encapsulation concept which means that user has to specify the storing path (section) for each coherent setting group step by step.

The path (section) must be specified between square brackets in the configuration file:

```
[General]
```

Enter comments by using semicolon (`;`) before the comment text. The characters entered after semicolon will not be interpreted by the parser.

The configuration file ('`vascand.conf`') can be found in the `/etc/vexira` directory by default.

Options to be set in the `[General]` section:

```
address=unix:/var/run/vascand
```

Address to listen on.

Two socket types are supported: unix socket and internet socket.

unix socket syntax: `unix:<path>`



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internet socket syntax: inet:<hostname or ip address>:<port>
Default: unix:/var/run/vascand

vdb_file=/var/lib/vexira/vdb.xml
Path to virus database descriptor file.
Default: /var/lib/vexira/vdb.xml

pid_file=/var/run/vascand.pid
Path to pid file.
Default: /var/run/vascand.pid

conn_timeout=1
read_timeout=180
write_timeout=1
Socket timeout in seconds.
conn_timeout: connection accept timeout
read_timeout: socket reading timeout
write_timeout: socket writing timeout
Default value is 1 to all options.

Configuration file of the command line scanner (vascan.ini)

The configuration file is line-oriented for simple handling. Each line contains different settings, the option's name is conform to long option names. You can use both the one character long- and the more character long options without dash ('-' or '--'). The options' values are similar to the command line options. In case of logical options the presence or the lack of the related option specifies if the function is enabled or disabled similar to the command line specification. Comments can be specified after '#' character in a new line or at the end of an opened line.

The configuration file (vascan.ini) can be found in the /etc/vascan directory by default.

Connection

--attach
Scan daemon's network address.
There are two supported socket types: unix socket and internet socket.
unix socket syntax: unix:<path>
internet socket syntax: inet:<hostname or ip address>:<port>
Example: attach= unix:/var/run/vascand

--engine
--vdb
These options need to be set if we would like to connect directly to the virus scan engine (without using scandamon). The engine option has to point to the virus scan engine file, the vdb option to the virus database file.
Example: engine=/usr/lib/libvbengine.so
vdb=/var/lib/vexira/vdb.xml

Information

-V --version
Prints the version number of the program, scan engine and vdb.

-h --help



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Prints the general command line options, their default values and the application's version number.

--full-help

Prints all the command line options, their default values and the application's version number.

Registration data

-k --registration-key

Specifying the registration key based on your license. The program handles the hyphen separated form, too (XXXXX-XXXXX-XXXXX).

-u --registered-user

Specifying the user name based on your license.

Using program without - valid - registration data you have to wait 30 seconds after starting scanner. You have to specify both the registration key and the user name for successfully registration.

Operational settings

-T --terse

Enables compact log mode.

Compact mode:

```
/mnt/test/eicar.zip//eicar1.com: found: EICAR skipped.
```

Original mode:

```
/mnt/test/eicar.zip//eicar1.com
```

```
    virus found: EICAR_test_file (NOT killable) ... skipped.
```

-TT --terse --terse

Only found information will be logged.

-q --quiet

Enables the quiet working method. The program displays only the virus incidents on the screen or in the log file and a summarized statistics at the end of the scan.

Duplicate use:

-qq or --quiet --quiet

This time the program writes out just the virus incidents to the stdout, summarized statistics also skipped.

Triple use:

-qqq or --quiet -quiet --quiet

Combines the effect of --terse and -qq options.

IMPORTANT! 'quiet' option affects only the stdout, error messages could be returned by stderr.

-qqqq or --quiet --quiet -quiet --quiet

If there is no need to notify the user (there was no malware found during the scan), entries will not be created into the log file.

--summary

Disables displaying summarized statistics tables about the scan.

If -qq or --quiet --quiet options are also specified, it results reversed action: enables the summary display.

-o --old

The program doesn't show warning message if virus database is older than two weeks.

-c --config=FILE

Specifying the used configuration file with its path. If this option is not set, the program is looking for that file (named vascan.ini by default) in the actual folder. If that one doesn't contain the .ini file the program's home directory will also be



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scanned for it. The configuration file is suitable for storing common settings needed for a general scanning. These settings can be redefined by command line options if necessary.

Note that the program will try to locate the files and directories that are specified by relative path in the configuration file starting from the actual directory (from which one the program was launched).

--debug=FILE

If debug file is specified, the program will create it during the scan process to log detailed information about the program operations. It can help you to analyze the scan if necessary.

Scan area settings

-Z --skip-archive

Archived files will not be scanned.

The archived files are scanned by default.

-M --skip-mail

MIME of type files will not be scanned.

The MIME files scanning is included by default.

--symlink=ACTION

Handling symbolic references (this option is working only on unix systems).

Available values (actions):

follow - uses the link name to identify the file

resolve - uses the file's own name to identify it

(in such a cases, it scans the referenced file as a regular file)

skip - ignores symbolic references

(in such a case it doesn't scan symlinks)

-R --skip-subdir[=PATH]

The program scans each subdirectories recursively by default if a directory is specified as target. If you set this option, you can select directories or directory fragments to exclude from the scan while the other locations will be scanned recursively. If you use this option without parameter (the -R or --skip-subdir alone) then all the subdirectories of the specified target area will be ignored.

-f --file=FILE

Text file containing paths and files (objects) to be scanned. This option's value locates the path of this text file. The objects will be read by lines from the file.

Special parameter: '-' hyphen ('--file=-'): this time the scanner reads the names of the files or directories to scan from STDIN (only in automatic mode).

Scanned file types

--all-files

Switches off the pattern matching at all so all file types will be scanned.

-p --pattern=PATTERN

The program scans only that files which match the specified PATTERN.

--include=PATTERN

Adds PATTERN to the default configuration.

--exclude=PATTERN

Excludes PATTERN from the default configuration. This option takes precedence over the above options.



-m --match-in-archive

Pattern-matching inside the archives is enabled by default if you use the built in patterns of the scan engine for scanning (using '--include' and/or '--exclude'). In every other cases it is disabled (using '--pattern' or '--all-files'). This option changes the default value.

Relations:

- '--all-files', '--pattern', '--include' could not be used at the same time
- If you don't specify either of the above options, the program will scan the files with the default extensions

PATTERN syntax:

Several patterns can be specified in the pattern option separated by pipe (|). The pattern can contain ? and * meta-characters (the ? (question mark) is considered as an optional character, the * (star) is considered as an optional character chain). The program is also able to handle character-classes for more restriction. Character-classes must be specified between brackets (e.g. [abc]). The exclamation mark '!' means negation if it is placed straight after the initial bracket '['. The '-' sign placed between two characters means a character range. If you want the '-' or '!' signs to be a considerable character, you should place it straight before the ending bracket ']'. The program does not make a distinction between small and capital letters.

The '*' and '?' meta-characters do not match directory separator characters in pathnames. The special '**' sequence can be used to match any arbitrary characters including directory separators. For example:

'Program Files**.*exe' - each .exe file will be matched in the Program Files directory and its subdirectories

Important!

PATTERN is matched against file's basename (filename without path) if PATTERN itself does not contain directory separator characters or '**' sequences, otherwise full path to the file shall be used. The separator character is '/' on Unix and GNU/Linux, and '\' on Windows that is the same as you can use to convert meta characters to literals. The application usually consider '\' as directory separator. It should be used duplicated if special characters follow it. These characters are: | * ? [] .

Scanning methods and actions in case of virus incidents

-e --heuristics = (o | off | n | normal | h | high)

Heuristics level setting. Default: normal level.

o / off - heuristics off
n / normal - normal level
h / high - high level

-s --scanning = (fa | fast | s | strict | fu | full)

Scanning method setting. Default: regular level.

fa / fast - Only scans those parts of the file, which are most likely to contain a virus and does not detect viruses, which can only be detected by using a major amount of system resources (e.g. Excel FORMULA viruses).

s / strict - Optimized scanning method, which detects all viruses registered in the virus database and scans those parts of the file, which are most likely to contain a virus.

fu / full - Detects all viruses registered in the virus database and scans the whole file, even those parts, where viruses are not likely to be found.

--thread=NUM

Maximum number of program threads. This option's value is 1 by default. The multi-thread applications result in better performance, but this strongly depends on the system settings.



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--timeout=NUM

Timeout limit of the scanning threads (seconds). Scanning will be cancelled if all the threads or just one of them exceed this limit - depending on the `--timeout-abort` option - and have no activity over the specified time-interval. You should increase this limit in case of large archives or strongly loaded system.

--timeout-abort

A `--timeout-abort` option affects the abort mechanism. If this option is set the program will be aborted immediately in case of first timeout. This function is disabled by default that means the program runs until at least one thread ends within the specified limit. The default `--thread` setting allows only one thread to be run so if it exceeds the timeout the program will be aborted.

-a --action=ACTION

Setting this option the program can be run in automatic mode so the specified action(s) will be performed without user interaction on virus incidents. If the action option is used repeatedly in the command line (separated by commas (,)), the actions will be considered and performed by their order. The first specified action has the highest priority and so on. If the first action can't be performed the following one will be tried. If the action (`-a` or `--action`) is not specified at all, the user is asked to choose an action in case of any incidents (interactive mode). Meaning of the available actions.

k - virus killing from the file (kill)
s - ignores the infected object (skip)
r - renaming the file (rename)
d - irreversible deleting (delete)

--remove-macro

Automatically deletes all the macros from the Microsoft Office documents without any confirmation.

-G --greyware

If you use this option, the program will detect the applications marked as greyware in the database and perform the specified action on them. Greyware cannot be clearly categorized as malicious or not malicious application because it strongly depends on its use. Generally this kind of software is not harmful program in case it is installed by the user's consent and approval. But it can happen, that this program is installed in the background without the user's permission and in this case it can be used for malicious activity (for example an ftp server program or a remote access application). So, in case of greyware, we cannot declare the application as malicious or not malicious based on the name or files of the program, it depends on the method of its installation.

File- and directory references

-d --vdb=DIR

Specifying the location of the XML descriptor file of the virus database. It is not compulsory to use this option but recommended. If the value of this option is not set, the program will be looking for the virus database in the 'vdb' folder of its home directory.

--log[=FILE]

Screen output could be saved into a specified log file. If file name is not specified (FILE), the output will be appended to the end of a possibly available log file with the default name (vascan.log).



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