

# User Guide

## **VirusBuster Shield**

VirusBuster Scan daemon description included  
For Linux/FreeBSD



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## INTRODUCTION FOR THE COMMON PACKAGE

The common package includes both the *VirusBuster Shield* resident virus protection product and the *VirusBuster Scan daemon* application.

The name structure of the package:

`vbshield-<vbshield-version>-<vbscand-version>-<opsystem>.tar.gz`

e.g.: `vbshield-1.0.0-1.0.1-linux-i386-libc6.tar.gz`

The 'vbinst-pkg.pl' is the main install script file, run it to install both the vbshield and vbscand packages.

Available install script parameters:

`--no-update`

The installer doesn't install the vbscand.

`-m, --module`

Reinstall kernel module.

`-c, --compile`

Force building kernel module.

The installer tries to install the vbscand package first. If the installer finds an installed instance of the vbscand in the system and its version is less than the current version, it removes the older one and installs the new one (if it is not disabled by the `--no-update` parameter). After vbscand has been installed successfully, the script also installs or updates the vbshield.

The purpose of this document is to provide instruction how to use and set the products.



## VIRUSBUSTER SHIELD

The VirusBuster Shield application (hereinafter called VFS) is an anti-virus system providing your file system with resident virus protection.

### Important!

Because the VFS covers the file system, the former mounted devices, file systems or folders can not be unmounted while VFS is running. First you have to stop the running VFS then perform the requested unmount procedures.

- Scan for viruses based on VPAs
- Various settings for each VPA
- Predefined actions for virus incidents

### Minimal system requirements

```

=====
OPERATING |           Linux           |           FreeBSD           |
SYSTEM    |           GLIBC 2.2.5     |           V4.9              |
          |           kernel2.4.0    |           V5.3              |
=====
PROCESSOR |           Intel Pentium (or compatible)           |
          |                               at 300MHz           |
-----
MEMORY    |                               32M                 |
-----
HARD DISK |                               10M                 |
-----
OTHER     |           perl5 (for installation)                 |
          |           VirusBuster Scan daemon installed       |
-----

```

### Operation

VFS needs the VirusBuster Scan daemon program to be installed on the computer so that it will be able to scan for viruses. The scan daemon provides the virus scan engine and its functionality to the VFS. The product checks if the scan daemon is installed on the computer or not, if it isn't, the VFS can not be installed.

To establish the connection between the VFS and the daemon, specify a common network address for the programs in their configuration file or by parameters. Use the 'scanaddress' option of VFS and 'address' option of scan daemon to set the network address to link the products.

When the VFS is started, it tries to connect to the scan daemon and queries its PID. If it cannot connect, it cannot query the PID, either. This generates the 'Unable to determine scan daemon's pid.' error message. If the scan daemon lost the connection, it tries to connect again. If it fails, it returns the 'Scan error.' message.



## Package naming, installation

Name of the VFS package: `vbshield-<version>-<opsystem>.tar.gz`  
e.g.: `vbshield-1.0.1-linux-i386-libc6.tar.gz`

Use the 'vbshield-install.pl' to individual installation of VFS. The following parameters are available:

`-m, --module`  
Reinstall kernel module.

`-c, --compile`  
Force building kernel module.

Important!

If you install a new program version (update the product) you have to restart the computer to use the new version!

## Uninstallation

Please run the following program file to uninstall the package:  
`vbshield-uninstall.pl`

## Binary files

Executable files and their parameters found in the package:

### **vbshield [options]**

Main program found in the `/usr/bin` directory by default.

Options:

`-n, --nodaemon` execute in no daemon mode  
`-v, --version` displays the version number and exits  
`-c, --config=FILE` reads configuration from FILE (path needed)  
`-l, --license` displays license information

### **vbshield start|stop|restart|reload|status**

Control file found in the `/etc/init.d` directory by default.

Parameters:

`start`: Starts the vbshield daemon file.  
`stop`: Stops the vbshield daemon file.  
`restart`: Stops and starts the vbshield daemon file.  
`reload`: Reloads the vbshield configuration file.  
`status`: checks if the resident protection is active or not.

## Registration

The product can't be used without a valid registration key. The program warns the user by sending a message to the log file and the screen once a day when the ending of the registration period is coming.

After registration key had expired, the product works as before (without any restriction) until a program update (virus database updating is possible). After program updating, you need a new license (registration key) to use the program.

The registration key must be placed into the configuration file, see the description of the configuration settings for more.



## Configuration file (*vbshield\_en.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. You can also use this function to disable a selected option quickly.

```
;source=/mnt/disk1
```

The configuration file ('vbshield\_en.conf') is found in the /etc/vbuster directory by default.

## General settings

The section of the general settings is introduced with the [General] label. The following options could be found in this section:

```
[General]
timeout=300
error_access=1
scanaddress= unix:/var/run/vbscand
logfile=/var/log/vbshield/vbshield.log
loglevel=3
maxscan=3
registration_name=
registration_key=
-----
```

Explanation:

### **timeout=300**

Timeout setting in seconds. The VFS module is waiting for the scan result until the selected period expires.

Default value: 300

### **error\_access=1**

Allow access in case of errors.

0: access is denied in case of error

1: access is allowed in case of error

Default value: 1

### **scanaddress=unix:/var/run/vbscand**

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>

### **logfile=/var/log/vbshield.log**

Log file's path.

Default value: /var/log/vbshield.log

### **loglevel=3**

Fullness of the log.

Use the following values:



0 - Disable logging  
1 - record delete, write, rename attempts on infected files  
2 - record errors  
3 - record warnings  
4 - Info  
5 - Debug log  
Default value: 3

**maxscan=3**

Limit for parallel virus scan. Use the values between 1 and 5.  
Default value: 3

**registration\_name=**

Specifying the user name based on your license.

**registration\_key=**

Specifying the registration key in the following form: XXXXX-XXXXX-XXXXX

## VPA settings

Define various virus policy areas (VPA) to protect your file system. You can specify different virus scan settings and actions for each VPA. For example, two different directories on the computer can be protected with different settings against viruses.

The VPA section is introduced with the [VPA] label. In the section you have to create sub-sections to define different VPAs as follows: [VPA/<id>]. The following options are available for a VPA sub-section:

```
[VPA]
[VPA/1]
vpa_path=/mnt/disk2
recursive=1
scan_on_open=1
scan_on_close=1
scanmask=*.exe,*.com,*.zip
delmask=*.doc,*.xls
writemask=*.mp3
renamemask=*.pdf
exclude_path=movies
timeout=600
error_access=0
search_method=strict
heuristic_level=normal
containers=enabled
action_on_killable=kill
action_on_not_killable=skip
```

```
[VPA/two]
```

```
...
```

```
[VPA/n]
```

```
...
```

-----  
Explanation:

**vpa\_path=/mnt/disk2**

Define virus policy area (VPA) specifying a path to protect. The following settings affect files found in the specified path or its subdirectories (if the value of 'recursive' option is set to 1).

**recursive=<0|1>**



Enable/disable VPA recursion.

0: VPA settings affect only the files found in the VPA directory

1: VPA settings affect files found in the VPA directory and its subdirectories

Default value: 1

**scan\_on\_open=<0|1>**

Scan file on its open or not.

0: files will not be scanned

1: files will be scanned

Default value: 1

**scan\_on\_close=<0|1>**

Scan file on its close or not. When files are scanned at file close only (based on the configuration), infected files' opening will also be denied.

0: files will not be scanned

1: files will be scanned

Default value: 1

**In the following options, if you would like to specify more than one parameter, please use the comma (,) character separating different values: scanmask, delmask, writemask, renamemask, exclude\_path**

**scanmask=\*.exe,\*.com,\*.zip**

Files with the specified extensions will be scanned by the virus scanner. Use the %default% token to insert default extensions provided by the virus scan engine. These are the following:

Program files: \*.exe,\*.com,\*.ov?,\*.sys,\*.386,\*.bin,\*.dll,\*.drv,\*.lnk,\*.ocx,  
\*.prg,\*.scr,\*.vxd,\*.crt,\*.prc,\*.xml,\*.swf

Script files: \*.bat,\*.ht\*,\*.js,\*.jse,\*.vbs,\*.ini,\*.csc,\*.hlp,\*.shs,\*.pif,  
\*.ade,\*.adp,\*.bas,\*.chm,\*.cmd,\*.cpl,\*.inf,\*.ins,\*.isp,\*.zl\*,  
\*.mde,\*.msc,\*.msi,\*.msp,\*.mst,\*.pcd,\*.reg,\*.scr,\*.sct,\*.url,  
\*.vb,\*.vbe,\*.ws\*,\*.ans,\*.tmp,\*.mpp,\*.mpt,\*.

Documents \*.do?,\*.rtf,\*.wiz,\*.eml

Chart files: \*.xl?

Access files: \*.mdb

Presentations: \*.ppt,\*.pot

Compressed: \*.arj,\*.a??,\*.zip,\*.rar,\*.cab,\*.gz,\*.bz2,\*.tgz,\*.tar,\*.dbx

**scanmask\_exclude=**

Set file types you want to be excluded from the scanning. These file types will not be checked by the anti-virus system.

**delmask=\*.doc,\*.xls**

Files with the specified extensions will be protected against deletion by the resident protection.

**writemask=\*.mp3**

Files with the specified extensions will be protected against writing by the resident protection.

**renamemask=\*.pdf**

Files with the specified extensions will be protected against renaming by the resident protection.

**exclude\_path=movies**

The resident protection will not apply the VPA settings to the path(s) specified in this option. This is a relative path to the VPA path. Use commas (,) to separate different path in the option.

Use this option if the recursion is enabled (recursive=1).

**timeout=600**

**error\_access=0**



It is possible to redefine the global values of these option only for the current VPA.

## **search\_method=<quick/strict/full>**

Select virus scanning method

The virus scanning engine is able to scan for and detect viruses according to the set methods/levels. It is possible to choose the needed scanning method in the components in the software. The following levels are available:

**quick:**

Scans only 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).

**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.

**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.

Default value: strict

## **heuristic\_level=<off/normal/high>**

During the heuristic analysis, the software tries to detect codes and programs, which have virus-like characteristics but are not registered in the virus database. If such a suspicious file is found, the user is notified. The following levels of heuristic analysis are available:

**off:**

No heuristic analysis.

**normal:**

The depth of the analysis is limited, the possibility of false positives is low, but the chance of detecting unknown viruses is not too high.

**high:**

The chance of detecting unknown viruses is higher, but there is a higher possibility of false positives.

Default value: normal

## **containers=<enabled|disabled>**

Scan in archived files or not.

enabled: archives will also be scanned

Default value: enabled

## **action\_on\_killable=kill**

Action performed on killable virus.

Possible values:

kill - kill virus from file

skip - skip infected file

delete - delete infected file

rename - rename infected file

Default value: kill

## **action\_on\_not\_killable=skip**

Action performed on non killable virus.

Possible values: skip, delete, rename

Default value: skip



## VIRUSBUSTER SCAN DAEMON

The VirusBuster Scan daemon program provides an interface for the remote client program to utilize the full functionality of the virus scan engine through unix or internet socket.

### Minimal system requirements

```

=====
OPERATING |          Linux          |          FreeBSD          |
SYSTEM    |          GLIBC 2.2.5    |          V4.9             |
          |          kernel2.4.0    |          V5.3             |
=====
PROCESSOR |          Intel Pentium (or compatible)
          |                          |          at 300MHz
-----
MEMORY    |                          |          32M
-----
HARD DISK |                          |          10M
-----
OTHER     |          perl5 (for installation)
-----

```

### Package naming, installation

Name of the vbscand package: vbscand-<version>-<opsystem>.tar.gz  
e.g.: vbscand-1.0.1-linux-i386-libc6.tar.gz

Use the 'vbscand-install.pl' to individual installation of vbscand.

### Uninstallation

Please run the following program file to uninstall the package:  
vbscand-uninstall.pl

### Binary files

Executable files and their options found in the package:

```

vbscand [options]
Scan daemon binary file. Possible options:
-n, --nodaemon - no daemon mode (run in the console where started)
-v, --version  - display the version of vbscand and exit
-b, --build    - display the version and build of vbscand 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

```

Scandaemon init script parameters (found in the /etc directory):



```
vbscand [options]
start - start scan daemon
stop - stop scan daemon
restart - restart scan daemon
cfgreload - reload configuration file
vdbreload - reload virus database
```

## 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 (vbs\_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 vbs\_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:

```
vbs_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/vbs_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 (/usr/lib/vbuster):  
update.virusbuster.hu/pub2006/vbuster/vdb.9/



You can activate the new database by the "vbscand vdbreload" command.

## Configuration file (*vbscand\_en.conf*)

The syntax and the general structure of the configuration file is similar to the VirusBuster Shield's.

The configuration file ('vbscand\_en.conf') is found in the /etc/vbuster directory by default.

Options to be set in the [General] section:

**address=unix:/var/run/vbscand**

Address to listen on.

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

unix socket syntax: unix:<path>

internet socket syntax: inet:<hostname or ip address>:<port>

Default: unix:/var/run/vbscand

**vdb\_file=/usr/lib/vbuster/vdb9.xml**

Path to virus database descriptor file.

Default: /usr/lib/vbuster/vdb9.xml

**pid\_file=/var/run/vbscand.pid**

Path to pid file.

Default: /var/run/vbscand.pid

**conn\_timeout=1**

**read\_timeout=1**

**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.

**archive-max-decomp-size=0**

Default value: 0 (this time the program is using the virus scan engine's default value).

If this file size limit is exceeded during decompress of an archive, the program stops the uncompression and scanning of the file and returns exploit virus found. (Option's value is in MByte).

**archive-max-decomp-ratio=0**

Default value: 0 (this time the program is using the virus scan engine's default value).

Example value: 50. If the size of the decompressed file is 50 times (or more) greater than the compressed file's, the program will return exploit virus found.

Other explanation (option's value in percent):  $1/n*100$ , where n is the value.

Example:  $1/50*100 = 2\%$  so if the compression ratio is better than 2% the program will return exploit virus found.



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## CONTACT

This manual provides comprehensive information on operational of our virus protection product. If you have any additional questions about it or would like to share your experience or proposals with us do not hesitate to contact us! Turn to us with confidence, your demands and remarks will be respected.

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[support@virusbuster.hu](mailto:support@virusbuster.hu)