



Dr.WEB

Local Update Mirror Utility

User Manual



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Dr.Web Local Update Mirror Utility
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User Manual
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Doctor Web

Doctor Web develops and distributes Dr.Web information security solutions that provide effective protection against malicious software and spam.

Doctor Web customers include home users around the world, government agencies, small businesses, and nationwide corporations.

Since 1992, Dr.Web anti-virus solutions have been known for their continuous excellence in malware detection and compliance with international information security standards.

The state certificates and awards received by Dr.Web solutions, as well as the worldwide use of our products, are the best evidence of exceptional trust in the company products.

We thank all our customers for their support and devotion to Dr.Web products!



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1. Introduction

The present manual describes Dr.Web Local Update Mirror Utility in detail, as well as provides recommendations on how to use it to perform typical tasks related to updating computers not having an internet connection.

Dr.Web Local Update Mirror Utility allows downloading virus, antispam and unwanted website databases to a local directory and then using them to update computers without an internet connection.

If the computer being used to download updates has to be updated, it is recommended to start a normal updating procedure with the following command:

```
# drweb-ctl update
```



This utility is designed for other use cases, for example, if it is necessary to download databases on a computer having an internet connection, where Dr.Web products are different or are not installed at all. In this case it is necessary to copy the Dr.Web key file, as well as `zone.ini` or `update.drl` files for bases to be updated from a source computer to a computer for downloading updates. The source computer is the one to be updated or is protected with the same Dr.Web product as the target computer.



2. Conventions and Abbreviations

Conventions

The following symbols and text conventions are used in this guide:

Convention	Comment
	An important note or instruction.
	A warning about possible errors or important notes that require special attention.
<i>Anti-virus network</i>	A new term or an emphasis on a term in descriptions.
<IP-address>	Placeholders.
Save	Names of buttons, windows, menu items and other program interface elements.
CTRL	Names of keyboard keys.
/home/user	Names of files and folders, code examples.
Appendix A	Cross-references to document chapters or internal hyperlinks to webpages.



Commands entered in the command line using a keyboard (in a terminal or a terminal emulator) are marked with the command prompt character \$ (% in case of macOS) or # in the manual. The character indicates the privileges required for running the specified command. According to the standard convention for UNIX-based systems,

\$ indicates that the command can be run with user privileges;

indicates that the command must be run with superuser (usually *root*) privileges. To elevate the privileges, use the `su` and `sudo` commands.

Abbreviations

The following abbreviations are not expanded in the text of the Manual:

- HTTP—Hypertext Transfer Protocol;
- OS—Operating System;
- URL—Uniform Resource Locator.



3. System Requirements

Dr.Web Local Update Mirror Utility supports the following OSes and architectures:

OS	Architecture
GNU/Linux	<ul style="list-style-type: none">• x86_64;• x86;• AArch64;• ppc64;• e2k
FreeBSD	<ul style="list-style-type: none">• x86_64;• x86
macOS	<ul style="list-style-type: none">• x86_64 (macOS X Yosemite and later are supported);• AArch64 (macOS Big Sur and later are supported)



4. Command-Line Parameters

The utility runs on OSes of the GNU/Linux family, FreeBSD or macOS and supports the following command-line parameters:

Parameter	Description
<code>--help</code>	Function: Output short help about command-line parameters to the console or terminal emulator and exit. Short form: <code>-h</code> Arguments: None.
<code>--version</code>	Function: Output information about the version of the utility to the console or terminal emulator and exit. Short form: <code>-v</code> Arguments: None.
<code>--key</code>	Function: Set a path to a key file. Short form: None. Arguments: <code><path to file></code> —full or relative path to the key file.
<code>--drl</code>	Function: Set a path to a <code>.drl</code> file comprising a URL of a mirror for updates. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.drl</code> file.
<code>--ini</code>	Function: Set a path to an <code>.ini</code> file comprising a URL of a mirror for updates. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.ini</code> file.
<code>--antispam-drl</code>	Function: Set a path to the <code>.drl</code> file comprising a URL of a mirror for antispam databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.drl</code> file.
<code>--antispam-ini</code>	Function: Set a path to an <code>.ini</code> file comprising a URL of a mirror for antispam databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.ini</code> file.
<code>--bases-drl</code>	Function: Set a path to a <code>.drl</code> file comprising a URL of a mirror for virus databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.drl</code> file.
<code>--bases-ini</code>	Function: Set a path to an <code>.ini</code> file comprising a URL of a mirror for virus databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.ini</code> file.



Parameter	Description
<code>--dws-drl</code>	Function: Set a path to a <code>.drl</code> file comprising a URL of a mirror for antispam databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.drl</code> file.
<code>--dws-ini</code>	Function: Set a path to an <code>.ini</code> file comprising a URL of a mirror for antispam databases. Short form: None. Arguments: <code><path to file></code> —full or relative path to the <code>.ini</code> file.
<code>--path</code>	Function: Set a path of a directory to store a local mirror. Short form: None. Arguments: <code><path to directory></code> —full or relative path to the directory.
<code>--arch</code>	Function: Set a target architecture. Short form: None. Arguments: <code><architecture></code> . Allowed values: <code>x86</code> , <code>x86_64</code> , <code>e2k</code> , <code>aarch64</code> , <code>ppc64</code> .
<code>--cert-path</code>	Function: Set a path to a file or a directory containing a certificate. Short form: None. Arguments: <code><path to file or directory></code> —full or relative path to a file or a directory containing the certificate.
<code>--use-https</code>	Function: Use a secure connection over HTTPS. Short form: None. Allowed values: <ul style="list-style-type: none">• <code>Always</code>—use HTTPS for all connections;• <code>ResListOnly</code>—use HTTPS only to download a list of resources;• <code>Never</code>—do not use HTTPS. Default value: <code>ResListOnly</code> .
<code>--proxy</code>	Function: Set proxy server parameters. Short form: None. Arguments: <code><server address:port number></code> —server address and a port number separated with a colon, for example, <code>127.0.0.1:80</code> .
<code>--network-timeout</code>	Function: Set network timeout (in seconds). Short form: None. Allowed values: from 10 seconds (10) to 5 hours (18000). Default value: 60.
<code>--debug</code>	Function: Show debug information while running a command. Short form: <code>-d</code> Arguments: None.



The utility can be used without installing Dr.Web products, however, the user must have access to a Dr.Web key file and a `.drl` or `.ini` file for a group of resources to be downloaded.

Unlike `.drl` files, `.ini` files comprise several mirror URLs, which allows to use a fall-back mirror if the default one is unavailable.

The following parameters must be indicated: `--path`, `--key`, any one of `--bases-drl`, `--bases-ini`, `--antispam-drl`, `--antispam-ini`, `--dws-drl`, `--dws-ini`, `--drl` or `--ini` keys, as well as a path to the corresponding `.drl` or `.ini` file.

The optional `--arch` parameter specifies a target architecture for downloading updates. If this parameter is not set, the updates are downloaded for the architecture of the computer that runs the utility. If the updates are intended for a computer of a different architecture, you must specify such an architecture after this parameter.



5. Finding Resources

The utility file name is generated as follows: `drweb-mirror-<version>-<OS>-<architecture>`, for example, `drweb-mirror-1.0-linux-amd64` or `drweb-mirror-1.0-freebsd-x86`. In the case of macOS, since the executable file is a multi-arch application, an architecture is not indicated in the file name: `drweb-mirror-1.0-macos`.

Typical paths of the required resources are provided below.

Resources	OSes of the GNU/Linux family	FreeBSD	macOS
Key file	<code>/etc/opt/drweb.com/drweb32.key</code>	<code>/usr/local/etc/drweb.com/drweb32.key</code>	<code>/Library/Application Support/DrWeb/keys/drweb32.key</code>
Directory with resource files for virus databases	<code>/var/opt/drweb.com/drl/bases</code>	<code>/var/drweb.com/drl/bases</code>	<p>For systems based on the AArch64 architecture:</p> <code>/Library/Application Support/DrWeb/var/drl/bases/aarch64</code> <p>For systems based on the x86_64 architecture:</p> <code>/Library/Application Support/DrWeb/var/drl/bases/x86_64</code>
Directory with resource files for antispy databases	<code>/var/opt/drweb.com/drl/antispy</code>	<code>/var/drweb.com/drl/antispy</code>	Not applicable
Directory with resource files for unwanted website databases	<code>/var/opt/drweb.com/drl/dws</code>	<code>/var/drweb.com/drl/dws</code>	<code>/Library/Application Support/DrWeb/dws</code>

Each directory indicated in the table contains `zone.ini` and `update.drl` files, one of which should be copied (together with the key file) to the computer for downloading updates.

To determine actual paths to directories with resource files for databases, run the following commands:

- for virus databases:

```
$ drweb-ctl cfshow Update.BaseDrlDir
```



- for antispam databases:

```
$ drweb-ctl cfshow Update.AntispamDrlDir
```

- for unwanted website databases:

```
$ drweb-ctl cfshow Update.DwsDrlDir
```



6. Downloading Databases

Download Dr.Web Local Update Mirror Utility from the [official website](#) of Doctor Web and navigate using the `cd` command in a console or terminal emulator to the directory containing this utility.

Below are examples of commands that will differ depending on OSes and configurations being used. In the following examples the utility runs on an OS of the GNU/Linux family, the required resources (the key file and the `.ini` files) are in the same directory as the utility, and updates are stored in the `/tmp/updates` directory. Any other writable directory can be set for storing updates. If such a directory does not exist, it will be created in the process of downloading resources. In order to avoid mistakes, `zone.ini` files for different groups of resources should be renamed to `bases.ini`, `antispam.ini` and `dws.ini`.

Grant a permission to run the utility:

```
$ chmod +x drweb-mirror-1.0-linux-amd64
```

Download virus databases:

```
$ ./drweb-mirror-1.0-linux-amd64 --path /tmp/updates --key drweb32.key --  
bases-ini bases.ini
```

Download antispam databases:

```
$ ./drweb-mirror-1.0-linux-amd64 --path /tmp/updates --key drweb32.key --  
antispam-ini antispam.ini
```

Download unwanted website databases:

```
$ ./drweb-mirror-1.0-linux-amd64 --path /tmp/updates --key drweb32.key --  
dws-ini dws.ini
```



7. Updating Computers Without an Internet Connection

Copy the directory with updates to the computer to be updated and run the following command:

```
# drweb-ctl update --from /tmp/updates
```

