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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'gpgv.1' command

\$ man gpgv.1

GPGV(1) GNU Privacy Guard 2.2

GPGV(1)

NAME

gpgv - Verify OpenPGP signatures

SYNOPSIS

gpgv [options] signed_files

DESCRIPTION

gpgv is an OpenPGP signature verification tool.

This program is actually a stripped-down version of gpg which is only able to check signatures. It is somewhat smaller than the fully-blown gpg and uses a different (and simpler) way to check that the public keys used to make the signature are valid. There are no configuration files and only a few options are implemented.

gpgv assumes that all keys in the keyring are trustworthy. That does also mean that it does not check for expired or revoked keys.

If no --keyring option is given, gpgv looks for a ``default'' keyring named ?trustedkeys.kbx? (preferred) or ?trustedkeys.gpg? in the home directory of GnuPG, either the default home directory or the one set by the --homedir option or the GNUPGHOME environment variable. If any --keyring option is used, gpgv will not look for the default keyring.

The `--keyring` option may be used multiple times and all specified keyrings will be used together.

RETURN VALUE

The program returns 0 if everything is fine, 1 if at least one signa?

ture was bad, and other error codes for fatal errors.

OPTIONS

gpgv recognizes these options:

--verbose

-v Gives more information during processing. If used twice, the in?
put data is listed in detail.

--quiet

-q Try to be as quiet as possible.

--keyring file

Add file to the list of keyrings. If file begins with a tilde
and a slash, these are replaced by the HOME directory. If the
filename does not contain a slash, it is assumed to be in the
home-directory ("~/.gnupg" if --homedir is not used).

--output file

-o file

Write output to file; to write to stdout use -. This option can
be used to get the signed text from a cleartext or binary signa?
ture; it also works for detached signatures, but in that case
this option is in general not useful. Note that an existing
file will be overwritten.

--status-fd n

Write special status strings to the file descriptor n. See the
file DETAILS in the documentation for a listing of them.

--logger-fd n

Write log output to file descriptor n and not to stderr.

--log-file file

Same as --logger-fd, except the logger data is written to file
file. Use ?socket://? to log to socket.

--ignore-time-conflict

GnuPG normally checks that the timestamps associated with keys
and signatures have plausible values. However, sometimes a sig?
nature seems to be older than the key due to clock problems.

This option turns these checks into warnings.

--homedir dir

Set the name of the home directory to dir. If this option is not used, the home directory defaults to ?~/gnupg?. It is only recognized when given on the command line. It also overrides any home directory stated through the environment variable ?GNUPGHOME? or (on Windows systems) by means of the Registry entry HKCU\Software\GNU\GnuPG:HomeDir.

On Windows systems it is possible to install GnuPG as a portable application. In this case only this command line option is considered, all other ways to set a home directory are ignored.

To install GnuPG as a portable application under Windows, create an empty file named ?gpgconf.ctl? in the same directory as the tool ?gpgconf.exe?. The root of the installation is then that directory; or, if ?gpgconf.exe? has been installed directly below a directory named ?bin?, its parent directory. You also need to make sure that the following directories exist and are writable: ?ROOT/home? for the GnuPG home and ?ROOT/var/cache/gnupg? for internal cache files.

--weak-digest name

Treat the specified digest algorithm as weak. Signatures made over weak digest algorithms are normally rejected. This option can be supplied multiple times if multiple algorithms should be considered weak. MD5 is always considered weak, and does not need to be listed explicitly.

--enable-special-filenames

This option enables a mode in which filenames of the form ?-&n?, where n is a non-negative decimal number, refer to the file descriptor n and not to a file with that name.

EXAMPLES

gpgv pgpfile

gpgv sigfile [datafile]

Verify the signature of the file. The second form is used for detached signatures, where sigfile is the detached signature

(either ASCII-armored or binary) and datafile contains the signed data; if datafile is "-" the signed data is expected on stdin; if datafile is not given the name of the file holding the signed data is constructed by cutting off the extension (".*asc*", ".*sig*" or ".*sign*") from sigfile.

FILES

~/.gnupg/trustedkeys.gpg

The default keyring with the allowed keys.

ENVIRONMENT

HOME Used to locate the default home directory.

GNUPGHOME

If set directory used instead of "~/.gnupg".

SEE ALSO

gpg(1)

The full documentation for this tool is maintained as a Texinfo manual.

If GnuPG and the info program are properly installed at your site, the command

info gnupg

should give you access to the complete manual including a menu structure and an index.