



Rocky Enterprise Linux 9.2 Manual Pages on command 'gpg-connect-agent.1'

\$ man gpg-connect-agent.1

GPG-CONNECT-AGENT(1) GNU Privacy Guard 2.2 GPG-CONNECT-AGENT(1)

NAME

gpg-connect-agent - Communicate with a running agent

SYNOPSIS

gpg-connect-agent [options][commands]

DESCRIPTION

The gpg-connect-agent is a utility to communicate with a running gpg-agent. It is useful to check out the commands gpg-agent provides using the Assuan interface. It might also be useful for scripting simple applications. Input is expected at stdin and output gets printed to stdout.

It is very similar to running gpg-agent in server mode; but here we connect to a running instance.

The following options may be used:

--dirmngr

Connect to a running directory manager (keyserver client) instead of to the gpg-agent. If a dirmngr is not running, start it.

--keyboxd

Connect to a running keybox daemon instead of to the gpg-agent.

If a keyboxd is not running, start it.

-S

--raw-socket name

Connect to socket name assuming this is an Assuan style server.

Do not run any special initializations or environment checks.

This may be used to directly connect to any Assuan style socket server.

-E

--exec Take the rest of the command line as a program and it's argu?

ments and execute it as an Assuan server. Here is how you would

run gpgsm:

gpg-connect-agent --exec gpgsm --server

Note that you may not use options on the command line in this case.

-v

--verbose

Output additional information while running.

-q

--quiet

Try to be as quiet as possible.

--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.

`--chuid uid`

Change the current user to uid which may either be a number or a name. This can be used from the root account to run `gpg-connect-agent` for another user. If uid is not the current UID a standard PATH is set and the envvar GNUPGHOME is unset. To override the latter the option `--homedir` can be used. This option has only an effect when used on the command line. This option has currently no effect at all on Windows.

`--no-ext-connect`

When using `-S` or `--exec`, `gpg-connect-agent` connects to the `As? suan` server in extended mode to allow descriptor passing. This option makes it use the old mode.

`--no-autostart`

Do not start the `gpg-agent` or the `dirmngr` if it has not yet been started.

`--no-history`

In interactive mode the command line history is usually saved and restored to and from a file below the GnuPG home directory. This option inhibits the use of that file.

`--agent-program file`

Specify the agent program to be started if none is running. The default value is determined by running `gpgconf` with the option `--list-dirs`. Note that the pipe symbol (`|`) is used for a regression test suite hack and may thus not be used in the file name.

`--dirmngr-program file`

Specify the directory manager (keyserver client) program to be

started if none is running. This has only an effect if used to?

gether with the option `--dirmngr`.

`--keyboxd-program file`

Specify the keybox daemon program to be started if none is run?

ning. This has only an effect if used together with the option

`--keyboxd`.

`-r file`

`--run file`

Run the commands from file at startup and then continue with the

regular input method. Note, that commands given on the command

line are executed after this file.

`-s`

`--subst`

Run the command `/subst` at startup.

`--hex` Print data lines in a hex format and the ASCII representation of

non-control characters.

`--decode`

Decode data lines. That is to remove percent escapes but make

sure that a new line always starts with a D and a space.

CONTROL COMMANDS

While reading Assuan commands, `gpg-agent` also allows a few special com?

mands to control its operation. These control commands all start with

a slash (/).

`/echo args`

Just print args.

`/let name value`

Set the variable name to value. Variables are only substituted

on the input if the `/subst` has been used. Variables are refer?

enced by prefixing the name with a dollar sign and optionally

include the name in curly braces. The rules for a valid name

are identically to those of the standard bourne shell. This is

not yet enforced but may be in the future. When used with curly

braces no leading or trailing white space is allowed.

If a variable is not found, it is searched in the environment and if found copied to the table of variables.

Variable functions are available: The name of the function must be followed by at least one space and the at least one argument.

The following functions are available:

`get` Return a value described by the argument. Available arguments are:

`cwd`

The current working directory.

`homedir`

The gnupg homedir.

`sysconfdir`

GnuPG's system configuration directory.

`bindir` GnuPG's binary directory.

`libdir` GnuPG's library directory.

`libexecdir`

GnuPG's library directory for executable files.

`datadir`

GnuPG's data directory.

`serverpid`

The PID of the current server. Command `/serverpid` must have been given to return a useful value.

`unescape args`

Remove C-style escapes from args. Note that `\0` and `\x00` terminate the returned string implicitly. The string to be converted are the entire arguments right behind the delimiting space of the function name.

`unpercent args`

`unpercent+ args`

Remove percent style escaping from args. Note that `%00` terminates the string implicitly. The string to be converted are the entire arguments right behind the delimiting space of the function name. `unpercent+` also maps plus signs to a spaces.

percent args

percent+ args

Escape the args using percent style escaping. Tabs, formfeeds, linefeeds, carriage returns and colons are escaped. percent+ also maps spaces to plus signs.

errcode arg

errsource arg

errstring arg

Assume arg is an integer and evaluate it using strtol.

Return the gpg-error error code, error source or a formatted string with the error code and error source.

+

-

*

/

% Evaluate all arguments as long integers using strtol and apply this operator. A division by zero yields an empty string.

!

|

& Evaluate all arguments as long integers using strtol and apply the logical operators NOT, OR or AND. The NOT operator works on the last argument only.

/definq name var

Use content of the variable var for inquiries with name. name may be an asterisk (*) to match any inquiry.

/definqfile name file

Use content of file for inquiries with name. name may be an asterisk (*) to match any inquiry.

/definqprog name prog

Run prog for inquiries matching name and pass the entire line to it as command line arguments.

/datafile name

Write all data lines from the server to the file name. The file is opened for writing and created if it does not exist. An existing file is first truncated to 0. The data written to the file fully decoded. Using a single dash for name writes to stdout. The file is kept open until a new file is set using this command or this command is used without an argument.

/showdef

Print all definitions

/cleardef

Delete all definitions

/sendfd file mode

Open file in mode (which needs to be a valid fopen mode string) and send the file descriptor to the server. This is usually followed by a command like INPUT FD to set the input source for other commands.

/recvfd

Not yet implemented.

/open var file [mode]

Open file and assign the file descriptor to var. Warning: This command is experimental and might change in future versions.

/close fd

Close the file descriptor fd. Warning: This command is experimental and might change in future versions.

/showopen

Show a list of open files.

/serverpid

Send the Assuan command GETINFO pid to the server and store the returned PID for internal purposes.

/sleep Sleep for a second.

/hex

/nohex Same as the command line option --hex.

/decode

/nodecode

Same as the command line option --decode.

/subst

/nosubst

Enable and disable variable substitution. It defaults to dis?

abled unless the command line option --subst has been used. If

/subst as been enabled once, leading whitespace is removed from

input lines which makes scripts easier to read.

/while condition

/end These commands provide a way for executing loops. All lines be?

tween the while and the corresponding end are executed as long

as the evaluation of condition yields a non-zero value or is the

string true or yes. The evaluation is done by passing condition

to the strtol function. Example:

/subst

/let i 3

/while \$i

/echo loop counter is \$i

/let i \${- \$i 1}

/end

/if condition

/end These commands provide a way for conditional execution. All

lines between the if and the corresponding end are executed only

if the evaluation of condition yields a non-zero value or is the

string true or yes. The evaluation is done by passing condition

to the strtol function.

/run file

Run commands from file.

/history --clear

Clear the command history.

/bye Terminate the connection and the program.

/help Print a list of available control commands.

SEE ALSO

gpg-agent(1), sddaemon(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.

GnuPG 2.3.3

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