

NAME

sudoreplay - replay sudo session logs

SYNOPSIS

sudoreplay [-h] [-d *dir*] [-f *filter*] [-m *num*] [-s *num*] ID

sudoreplay [-h] [-d *dir*] -l [search expression]

DESCRIPTION

sudoreplay plays back or lists the output logs created by **sudo**. When replaying, **sudo**replay can play the session back in real-time, or the playback speed may be adjusted (faster or slower) based on the command line options.

The *ID* should either be a six character sequence of digits and upper case letters, e.g. 0100A5, or a pattern matching the *iolog_file* option in the *sudoers* file. When a command is run via **sudo** with *log_output* enabled in the *sudoers* file, a TSID=ID string is logged via syslog or to the **sudo** log file. The *ID* may also be determined using **sudo**replay's list mode.

In list mode, **sudo**replay can be used to find the ID of a session based on a number of criteria such as the user, tty or command run.

In replay mode, if the standard output has not been redirected, **sudo**replay will act on the following keys:

- '\n' or '\r' Skip to the next replay event; useful for long pauses.
- ' ' (space) Pause output; press any key to resume.
- '<' Reduce the playback speed by one half.
- '>' Double the playback speed.

The options are as follows:

-d *dir*, **--directory**=*dir*

Store session logs in *dir* instead of the default, */var/log/sudo-io*.

-f *filter*, **--filter**=*filter*

Select which I/O type(s) to display. By default, **sudo**replay will display the command's standard output, standard error and tty output. The *filter* argument is a comma-separated list, consisting of one or more of following: *stdout*, *stderr*, and *ttyout*.

-h, --help Display a short help message to the standard output and exit.

-l, --list [*search expression*]

Enable "list mode". In this mode, **sudo** will list available sessions in a format similar to the **sudo** log file format, sorted by file name (or sequence number). If a *search expression* is specified, it will be used to restrict the IDs that are displayed. An expression is composed of the following predicates:

command pattern

Evaluates to true if the command run matches the POSIX extended regular expression *pattern*.

cwd directory

Evaluates to true if the command was run with the specified current working directory.

fromdate date

Evaluates to true if the command was run on or after *date*. See *Date and time format* for a description of supported date and time formats.

group runas_group

Evaluates to true if the command was run with the specified *runas_group*. Note that unless a *runas_group* was explicitly specified when **sudo** was run this field will be empty in the log.

runas runas_user

Evaluates to true if the command was run as the specified *runas_user*. Note that **sudo** runs commands as user *root* by default.

todate date

Evaluates to true if the command was run on or prior to *date*. See *Date and time format* for a description of supported date and time formats.

tty tty name

Evaluates to true if the command was run on the specified terminal device. The *tty name* should be specified without the */dev/* prefix, e.g. *tty01* instead of */dev/tty01*.

user user name

Evaluates to true if the ID matches a command run by *user name*.

Predicates may be abbreviated to the shortest unique string (currently all predicates may be shortened to a single character).

Predicates may be combined using *and*, *or* and *!* operators as well as '(' and ')' grouping (note that parentheses must generally be escaped from the shell). The *and* operator is optional, adjacent predicates have an implied *and* unless separated by an *or*.

-m, --max-wait *max_wait*

Specify an upper bound on how long to wait between key presses or output data. By default, **sudo** will accurately reproduce the delays between key presses or program output. However, this can be tedious when the session includes long pauses. When the **-m** option is specified, **sudo** will limit these pauses to at most *max_wait* seconds. The value may be specified as a floating point number, e.g. 2.5.

-s, --speed *speed_factor*

This option causes **sudo** to adjust the number of seconds it will wait between key presses or program output. This can be used to slow down or speed up the display. For example, a *speed_factor* of 2 would make the output twice as fast whereas a *speed_factor* of .5 would make the output twice as slow.

-V, --version

Print the **sudo** version number and exit.

Date and time format

The time and date may be specified multiple ways, common formats include:

HH:MM:SS am MM/DD/CCYY timezone

24 hour time may be used in place of am/pm.

HH:MM:SS am Month, Day Year timezone

24 hour time may be used in place of am/pm, and month and day names may be abbreviated.

Note that month and day of the week names must be specified in English.

CCYY-MM-DD HH:MM:SS

ISO time format

DD Month CCYY HH:MM:SS

The month name may be abbreviated.

Either time or date may be omitted, the am/pm and timezone are optional. If no date is specified, the

current day is assumed; if no time is specified, the first second of the specified date is used. The less significant parts of both time and date may also be omitted, in which case zero is assumed.

The following are all valid time and date specifications:

now The current time and date.

tomorrow
 Exactly one day from now.

yesterday
 24 hours ago.

2 hours ago
 2 hours ago.

next Friday
 The first second of the Friday in the next (upcoming) week. Not to be confused with "this friday" which would match the friday of the current week.

last week
 The current time but 7 days ago. This is equivalent to "a week ago".

a fortnight ago
 The current time but 14 days ago.

10:01 am 9/17/2009
 10:01 am, September 17, 2009.

10:01 am
 10:01 am on the current day.

10 10:00 am on the current day.

9/17/2009
 00:00 am, September 17, 2009.

10:01 am Sep 17, 2009
 10:01 am, September 17, 2009.

Note that relative time specifications do not always work as expected. For example, the "next" qualifier is intended to be used in conjunction with a day such as "next Monday". When used with units of weeks, months, years, etc the result will be one more than expected. For example, "next week" will result in a time exactly two weeks from now, which is probably not what was intended. This will be addressed in a future version of **sudoreplay**.

Debugging sudoreplay

sudoreplay versions 1.8.4 and higher support a flexible debugging framework that is configured via Debug lines in the `sudo.conf(5)` file.

For more information on configuring `sudo.conf(5)`, please refer to its manual.

FILES

<i>/etc/sudo.conf</i>	Debugging framework configuration
<i>/var/log/sudo-io</i>	The default I/O log directory.
<i>/var/log/sudo-io/00/00/01/log</i>	Example session log info.
<i>/var/log/sudo-io/00/00/01/stdin</i>	Example session standard input log.
<i>/var/log/sudo-io/00/00/01/stdout</i>	Example session standard output log.
<i>/var/log/sudo-io/00/00/01/stderr</i>	Example session standard error log.
<i>/var/log/sudo-io/00/00/01/ttyin</i>	Example session tty input file.
<i>/var/log/sudo-io/00/00/01/ttyout</i>	Example session tty output file.
<i>/var/log/sudo-io/00/00/01/timing</i>	Example session timing file.

Note that the *stdin*, *stdout* and *stderr* files will be empty unless **sudo** was used as part of a pipeline for a particular command.

EXAMPLES

List sessions run by user *millert*:

```
# sudoreplay -l user millert
```

List sessions run by user *bob* with a command containing the string *vi*:

```
# sudoreplay -l user bob command vi
```

List sessions run by user *jeff* that match a regular expression:

```
# sudoreplay -l user jeff command '/bin/[a-z]*sh'
```

List sessions run by *jeff* or *bob* on the console:

```
# sudoreplay -l ( user jeff or user bob ) tty console
```

SEE ALSO

[script\(1\)](#), [sudo.conf\(5\)](#), [sudo\(8\)](#)

AUTHORS

Many people have worked on **sudo** over the years; this version consists of code written primarily by:

Todd C. Miller

See the CONTRIBUTORS file in the **sudo** distribution (<https://www.sudo.ws/contributors.html>) for an exhaustive list of people who have contributed to **sudo**.

BUGS

If you feel you have found a bug in **sudoreplay**, please submit a bug report at <https://bugzilla.sudo.ws/>

SUPPORT

Limited free support is available via the sudo-users mailing list, see <https://www.sudo.ws/mailman/listinfo/sudo-users> to subscribe or search the archives.

DISCLAIMER

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