

[name](#)[synopsis](#)[description](#)[options](#)[configuration file](#)[configuration file directives](#)[scripts](#)[user and group](#)[files](#)[see also](#)[authors](#)[kinetic \(8\) logrotate.8.gz](#)Provided by: [logrotate_3.20.1-1ubuntu1_amd64](#) 

NAME

logrotate - rotates, compresses, and mails system logs

SYNOPSIS

```
logrotate [--force] [--debug] [--state file] [--skip-state-lock] [--verbose]
[--mail command] config_file [config_file2 ...]
```

DESCRIPTION

logrotate is designed to ease administration of systems that generate large number of log files. It allows automatic rotation, compression, removal, and mailing of log files. Each log file may be handled daily, weekly, monthly, or when it grows too large.

Normally, **logrotate** is run as a daily cron job. It will not modify a log more in one day unless the criterion for that log is based on the log's size and being run more than once each day, or unless the **-f** or **--force** option is used.

Any number of config files may be given on the command line. Later config files override the options given in earlier files, so the order in which the **logrotate** config files are listed is important. Normally, a single config file which includes all the config files which are needed should be used. See below for more information. To use the **include** directive to accomplish this. If a directory is given on the command line, every file in that directory is used as a config file.

If no command line arguments are given, **logrotate** will print version information, along with a short usage summary. If any errors occur while rotating logs, **logrotate** will exit with non-zero status, although the state file will be updated.

OPTIONS

-f, --force

Tells **logrotate** to force the rotation, even if it doesn't think this is necessary. Sometimes this is useful after adding new entries to a **logrotate** config file. If old log files have been removed by hand, as the new files will be rotated, logging will continue correctly.

-d, --debug

Turn on debug mode, which means that no changes are made to the logs. The **logrotate** state file is not updated. Only debug messages are printed.

-s, --state statefile

Tells **logrotate** to use an alternate state file. This is useful if you are being run as a different user for various sets of log files. To prevent concurrent execution **logrotate** by default acquires a lock on the state file, if it cannot acquire the lock **logrotate** will exit with value 3. The default state file is </var/lib/logrotate/status>. If </dev/null> is given as the state file, **logrotate** will not try to lock or write the state file.

--skip-state-lock

Do not lock the state file, for example if locking is unsupported or prohibited.

-v, --verbose

Turns on verbose mode, for example to display messages during rotation

-l, --log file

Tells **logrotate** to log verbose output into the `log_file`. The verbose output to that file is the same as when running **logrotate** with **-v** switch. The file is overwritten on every **logrotate** execution.

-m, --mail command

Tells **logrotate** which command to use when mailing logs. This command must take the following arguments:

- 1) the subject of the message given with '-s subject'
- 2) the recipient.

The command must then read a message on standard input and mail it to the recipient. The default mail command is `/usr/bin/mail`.

--usage

Prints a short usage message.

-, --help

Prints help message.

--version

Display version information.

CONFIGURATION FILE

logrotate reads everything about the log files it should be handling from the configuration files specified on the command line. Each configuration file contains options (local definitions override global ones, and later definitions override earlier ones) and specify logfiles to rotate. Global options do not affect previous directives. A simple configuration file looks like this:

```
# sample logrotate configuration file
compress
```

```

/var/log/messages {
    rotate 5
    weekly
    postrotate
        /usr/bin/killall -HUP syslogd
    endscript
}

"/var/log/httpd/access.log" /var/log/httpd/error.log {
    rotate 5
    mail recipient@example.org
    size 100k
    sharedscripts
    postrotate
        /usr/bin/killall -HUP httpd
    endscript
}

/var/log/news/* {
    monthly
    rotate 2
    olddir /var/log/news/old
    missingok
    sharedscripts
    postrotate
        kill -HUP $(cat /var/run/inn.pid)
    endscript
    nocompress
}

~/log/*.log {}

```

The first few lines set global options; in the example, logs are compressed and rotated. Note that comments may appear anywhere in the config file as long as a non-whitespace character on the line is a #.

Values are separated from directives by whitespace and/or an optional =. Numbers are specified in a format understood by `strtoul(3)`.

The next section of the config file defines how to handle the log file `/var/log`.

The log will go through five weekly rotations before being removed. After the log has been rotated (but before the old version of the log has been compressed) [/usr/bin/killall -HUP syslogd](#) will be executed.

The next section defines the parameters for both [/var/log/httpd/access.log](#) and [/var/log/httpd/error.log](#). Each is rotated whenever it grows over 100 kilobytes and the old logs files are mailed (uncompressed) to [recipient@example.org](#) through 5 rotations, rather than being removed. The **sharedscripts** means the **postrotate** script will only be run once (after the old logs have been compressed) once for each log which is rotated. Note that log file names may be enclosed in quotes (and that quotes are required if the name contains spaces). Normal shell quoting rules apply, with ', ", and \ characters supported.

The next section defines the parameters for all of the files in [/var/log/news](#). The log is rotated on a monthly basis.

The last section uses tilde expansion to rotate log files in the home directory of the current user. This is only available, if your glob library supports tilde expansion. Not all glob does support this.

Please use wildcards with caution. If you specify *, **logrotate** will rotate all logs, including previously rotated ones. A way around this is to use the **olddir** directive and a more exact wildcard (such as *.log).

Please note, by default when using **systemd(1)**, the option [ProtectSystem=full](#) in the [logrotate.service](#) file. This prevents **logrotate** from modifying logs in [/etc](#).

Here is more information on the directives which may be included in the configuration file:

CONFIGURATION FILE DIRECTIVES

These directives may be included in a **logrotate** configuration file:

Rotation

rotate count

Log files are rotated count times before being removed or mailed to [recipient@example.org](#) as specified in a **mail** directive. If count is 0, old versions are removed.

rotated. If count is -1, old logs are not removed at all, except they by **maxage** (use with caution, may waste performance and disk space). De

olddir directory

Logs are moved into directory for rotation. The directory must be physical device as the log file being rotated, unless **copy**, **copy** **renamecopy** option is used. The directory is assumed to be relative directory holding the log file unless an absolute path name is specified; this option is used all old versions of the log end up in directory. may be overridden by the **noolddir** option.

noolddir

Logs are rotated in the directory they normally reside in (this overrides the **olddir** option).

su user group

Rotate log files set under this user and group instead of using default (usually root). user specifies the user used for rotation and group specifies group used for rotation (see the section **USER AND GROUP** for details). If user/group you specify here does not have sufficient privilege to make the ownership you've specified in a **create** directive, it will cause an error. **logrotate** runs with root privileges, it is recommended to use the **su** option to rotate files in directories that are directly or indirectly in control of privileged users.

Frequency

hourly Log files are rotated every hour. Note that usually **logrotate** is configured to run by cron daily (or by logrotate.timer when using **systemd**(1)). To change this configuration and run **logrotate** hourly to be able to really rotate hourly.

daily Log files are rotated every day.

weekly [weekday]

Log files are rotated once each weekday, or if the date is advanced by weekday days since the last rotation (while ignoring the exact time). The interpretation is following: 0 means Sunday, 1 means Monday, ..., 6 means Saturday. The special value 7 means each 7 days, irrespectively of weekday. Default is 0. If the weekday argument is omitted.

monthly

Log files are rotated the first time **logrotate** is run in a month (this is on the first day of the month).

yearly Log files are rotated if the current year is not the same as the last

size size

Log files are rotated only if they grow bigger than size bytes. If followed by k, the size is assumed to be in kilobytes. If M is used, the size is in megabytes, and if G is used, the size is in gigabytes. So size 100, size 100M and size 100G are all valid. This option is mutually exclusive with time interval options, and it causes log files to be rotated without regard to the last rotation time, if specified after the time criteria (the last specified option takes the precedence).

File selection**missingok**

If the log file is missing, go on to the next one without issuing an error. See also **nomissingok**.

nomissingok

If a log file does not exist, issue an error. This is the default.

ifempty

Rotate the log file even if it is empty, overriding the **notifempty** option (ifempty is the default).

notifempty

Do not rotate the log if it is empty (this overrides the **ifempty** option).

minage count

Do not rotate logs which are less than <count> days old.

maxage count

Remove rotated logs older than <count> days. The age is only checked if the logfile is to be rotated. **rotate -1** does not hinder removal. The files are mailed to the configured address if **maillast** and **mail** are configured.

minsize size

Log files are rotated when they grow bigger than size bytes, but not

additionally specified time interval (**daily**, **weekly**, **monthly**, or **yearly**). The related **size** option is similar except that it is mutually exclusive with interval options, and it causes log files to be rotated without regard to rotation time, if specified after the time criteria (the last specified option takes the precedence). When **minsize** is used, both the size and times of the log file are considered.

maxsize size

Log files are rotated when they grow bigger than size bytes even if an additionally specified time interval (**daily**, **weekly**, **monthly**, or **yearly**). The related **size** option is similar except that it is mutually exclusive with interval options, and it causes log files to be rotated without regard to rotation time, if specified after the time criteria (the last specified option takes the precedence). When **maxsize** is used, both the size and times of the log file are considered.

tabooext [+] list

The current taboo extension list is changed (see the **include** directive for information on the taboo extensions). If a + precedes the list of extensions, the current taboo extension list is augmented, otherwise it is replaced. The current taboo extension list is .v, .cfsaved, .disabled, .dpkg-bak, .dpkg-del, .dpkg-new, .dpkg-old, .rhn-cfg-tmp-*, .rpmnew, .rpmorig, .rpmsave, .swp, .ucf-new, .ucf-old, ~.

taboopat [+] list

The current taboo glob pattern list is changed (see the **include** directive for information on the taboo extensions and patterns). If a + precedes the list of patterns, the current taboo pattern list is augmented, otherwise it is replaced. At startup, the taboo pattern list is empty.

Files and Folders

create mode owner group, **create** owner group

Immediately after rotation (before the **postrotate** script is run) the log file is created (with the same name as the log file just rotated). mode specifies the permissions for the log file in octal (the same as **chmod**(2)), owner specifies the user who owns the log file, and group specifies the group the log file will belong to (see the section **USER AND GROUP** for details). Any of the log file attributes may be omitted, in which case those attributes for the new file will use the values of the original log file for the omitted attributes. This option can be disabled using the **nocreate** option.

nocreate

New log files are not created (this overrides the **create** option).

createolddir mode owner group

If the directory specified by **olddir** directive does not exist, it is created. **mode** specifies the mode for the **olddir** directory in octal (the same as **chmod**), **owner** specifies the user who will own the **olddir** directory, and **group** specifies the group the **olddir** directory will belong to (see the section **USER AND GROUP** for details). This option can be disabled using the **nocreateolddir** option.

nocreateolddir

olddir directory is not created by **logrotate** when it does not exist.

copy Make a copy of the log file, but don't change the original at all. This can be used, for instance, to make a snapshot of the current log file, so that another utility needs to truncate or parse the file. When this option is used, the **create** option will have no effect, as the old log file stays in place. The **copy** option allows storing rotated log files on the different devices using the **olddir** directive.

nocopy Do not copy the original log file and leave it in place. (this overrides the **copy** option).

copytruncate

Truncate the original log file to zero size in place after creating a copy of moving the old log file and optionally creating a new one. It can be used when some program cannot be told to close its logfile and thus might continue (appending) to the previous log file forever. Note that there is a very small time slice between copying the file and truncating it, so some logging data might be lost. When this option is used, the **create** option will have no effect. The log file stays in place. The **copytruncate** option allows storing rotated log files on the different devices using **olddir** directive. The **copytruncate** option overrides the **norenamecopy** option.

nocopytruncate

Do not truncate the original log file in place after creating a copy. (this overrides the **copytruncate** option).

renamecopy

Log file is renamed to temporary filename in the same directory by extension to it. After that, **postrotate** script is run and log file is temporary filename to final filename. In the end, temporary filename. The **renamecopy** option allows storing rotated log files on the different using **olddir** directive. The **renamecopy** option implies **nocopytruncate**.

norenamecopy

Do not rename and copy the original log file (this overrides the option).

shred Delete log files using **shred -u** instead of **unlink()**. This should ensure are not readable after their scheduled deletion; this is off by default. **noshred**.

noshred

Do not use **shred** when deleting old log files. See also **shred**.

shredcycles count

Asks GNU **shred**(1) to overwrite log files **count** times before deletion. option, **shred**'s default will be used.

allowhardlink

Rotate files with multiple hard links; this is off by default. The might get emptied, e.g. with **shred** or **copytruncate**. Use with caution when the log files are rotated as root.

noallowhardlink

Do not rotate files with multiple hard links. See also **allowhardlink**.

Compression**compress**

Old versions of log files are compressed with **gzip**(1) by default. **nocompress**.

nocompress

Old versions of log files are not compressed. See also **compress**.

compresscmd

Specifies which command to use to compress log files. The default is also **compress**.

uncompresscmd

Specifies which command to use to uncompress log files. The default is

compressext

Specifies which extension to use on compressed logfiles, if compression is used. The default follows that of the configured compression command.

compressoptions

Command line options may be passed to the compression program, if one is specified. The default, for **gzip**(1), is "-6" (biased towards high compression at the expense of speed). If you use a different compression command, you may need to specify **compressoptions** to match.

delaycompress

Postpone compression of the previous log file to the next rotation. This option only has effect when used in combination with **compress**. It can be used with programs that cannot be told to close its logfile and thus might continue write to the previous log file for some time.

nodelaycompress

Do not postpone compression of the previous log file to the next rotation. This option (this overrides the **delaycompress** option).

Filenames**extension ext**

Log files with ext extension can keep it after the rotation. If compression is used, the compression extension (normally **.gz**) appears after ext. For example, if you have a logfile named mylog.foo and want to rotate it to mylog.1.foo.gz, you would use **mylog.foo.1.gz**.

addextension ext

Log files are given the final extension ext after rotation. If the original filename already ends with ext, the extension is not duplicated, but merely appended, that is both **filename** and **filenameext** would get rotated to filename.ext. If compression is used, the compression extension (normally **.gz**) appears after the final extension.

start count

This is the number to use as the base for rotation. For example, if you set start 1, the logs will be created with a **.0** extension as they are rotated from 0 to 1.

log files. If you specify 9, log files will be created with a .9, Files will still be rotated the number of times specified with directive.

dateext

Archive old versions of log files adding a date extension like YYYYMM simply adding a number. The extension may be configured using the **date** **dateyesterday** options.

no dateext

Do not archive old versions of log files with date extension (this **dateext** option).

dateformat format_string

Specify the extension for **dateext** using the notation similar to function. Only %Y %m %d %H %M %S %V and %s specifiers are allowed. value is -%Y%m%d except hourly, which uses -%Y%m%d%H as default value. also the character separating log name from the extension is part of the string. The system clock must be set past Sep 9th 2001 for %s to work. Note that the timestamps generated by this format must be lexically sorted is first the year, then the month then the day. For example 2001/12/01/12/2001 is not, since 01/11/2002 would sort lower while it is later because when using the **rotate** option, **logrotate** sorts all rotated files

out which logfiles are older and should be removed.

dateyesterday

Use yesterday's instead of today's date to create the **dateext** extension the rotated log file has a date in its name that is the same as the within it.

datehourago

Use hour ago instead of current date to create the **dateext** extension rotated log file has a hour in its name that is the same as the times it. Useful with rotate **hourly**.

Mail

mail address

When a log is rotated out of existence, it is mailed to address. If not be generated by a particular log, the **nomail** directive may be used.

nomail Do not mail old log files to any address.

mailfirst

When using the **mail** command, mail the just-rotated file, instead of the to-be-rotated file.

maillast

When using the **mail** command, mail the about-to-expire file, instead of the just-rotated file (this is the default).

Additional config files

include file_or_directory

Reads the file given as an argument as if it was included inline where the **include** directive appears. If a directory is given, most of the files in the directory are read in alphabetic order before processing of the including file. The only files which are ignored are files which are not regular files (i.e., not files, directories and named pipes) and files whose names end with one of the extensions or patterns, as specified by the **tabooext** or **taboopat** options, respectively. The given path may start with **~/** to make it relative to the home directory of the executing user. For security reasons configuration files should not be group-writable nor world-writable.

Scripts

sharedscripts

Normally, **prerotate** and **postrotate** scripts are run for each log file which is rotated, and the absolute path to the log file is passed as first argument to the script. That means a single script may be run multiple times for log file entries which match multiple files (such as the /var/log/news/* example). If **sharedscripts** is specified, the scripts are only run once, no matter how many log files match the wildcarded pattern, and whole pattern is passed to them. However, if any logs in the pattern require rotating, the scripts will not be run at all. If the scripts exit with error (or any log fails to rotate), the remaining scripts will not be executed for any logs. This option overrides the **nosharedscripts** option.

nosharedscripts

Run **prerotate** and **postrotate** scripts for every log file which is rotated (this is the default, and overrides the **sharedscripts** option). The absolute path to the log file is passed as first argument to the script. The absolute path to the just-rotated log file is passed as the second argument to the **postrotate** script. If the scripts exit with error, the remaining actions will not be executed.

affected log only.

firstaction

script

endscript

The script is executed once before all log files that match the wildcard are rotated, before the prerotate script is run and only if at least one log file actually be rotated. These directives may only appear inside a log file definition. The whole pattern is passed to the script as its first argument. If the script exits with an error, no further processing is done. See also **prerotate** and the **SCRIPTS** section.

lastaction

script

endscript

The script is executed once after all log files that match the wildcard are rotated, after the postrotate script is run and only if at least one log file rotated. These directives may only appear inside a log file definition. The whole pattern is passed to the script as its first argument. If the script exits with an error, just an error message is shown (as this is the last action). See also **firstaction** and the **SCRIPTS** section.

prerotate

script

endscript

The script is executed before the log file is rotated and only if the log file actually be rotated. These directives may only appear inside a log file definition. Normally, the absolute path to the log file is passed as the first argument to the script. If **sharedscripts** is specified, the whole pattern is passed to the script. See also **postrotate** and the **SCRIPTS** section. See **sharedscripts** and **nosharedscripts** for error handling.

postrotate

script

endscript

The script is executed after the log file is rotated. These directives may only appear inside a log file definition. Normally, the absolute path to the log file is passed as the first argument to the script and the absolute path to the rotated log file is passed as the second argument to the script. If **sharedscripts** is specified, the whole pattern is passed as the first argument to the script.

the second argument is omitted. See also **prerotate** and the **SCRIPTS** section. See also **sharedscripts** and **nosharedscripts** for error handling.

preremove

script
endscript

The script is executed once just before removal of a log file. **logrotate** takes the name of file which is soon to be removed as the first argument to script. See also **firstaction** and the **SCRIPTS** section.

SCRIPTS

The lines between the starting keyword (e.g. **prerotate**) and **endscript** (both of which appear on lines by themselves) are executed (using **/bin/sh**). The script runs with the traits from the **logrotate** process, including stderr, stdout, the current directory, environment, and the umask. Scripts are run as the invoking user and group, or of any **su** directive. If the **--log** flag was specified, file descriptor 3 is the log file. The current working directory is unspecified.

USER AND GROUP

User and group identifiers are resolved first by trying the textual representation; if case it fails, afterwards by the numeric value.

FILES

/var/lib/logrotate/status	Default state file.
/etc/logrotate.conf	Configuration options.

SEE ALSO

[chmod\(2\)](#), [gunzip\(1\)](#), [gzip\(1\)](#), [mail\(1\)](#), [shred\(1\)](#), [strftime\(3\)](#),

<<https://github.com/logrotate/logrotate>>

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<<https://github.com/logrotate/logrotate>>

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