

NAME

visudo - edit the sudoers file

SYNOPSIS

visudo [-chqsV] [-f *sudoers*] [-x *output_file*]

DESCRIPTION

visudo edits the *sudoers* file in a safe fashion, analogous to *vipw*(8). **visudo** locks the *sudoers* file against multiple simultaneous edits, provides basic sanity checks, and checks for parse errors. If the *sudoers* file is currently being edited you will receive a message to try again later.

There is a hard-coded list of one or more editors that **visudo** will use set at compile-time that may be overridden via the *editor sudoers* Default variable. This list defaults to *vi*. Normally, **visudo** does not honor the VISUAL or EDITOR environment variables unless they contain an editor in the aforementioned editors list. However, if **visudo** is configured with the *--with-env-editor* option or the *env_editor* Default variable is set in *sudoers*, **visudo** will use any the editor defines by VISUAL or EDITOR. Note that this can be a security hole since it allows the user to execute any program they wish simply by setting VISUAL or EDITOR.

visudo parses the *sudoers* file after the edit and will not save the changes if there is a syntax error. Upon finding an error, **visudo** will print a message stating the line number(s) where the error occurred and the user will receive the "What now?" prompt. At this point the user may enter 'e' to re-edit the *sudoers* file, 'x' to exit without saving the changes, or 'Q' to quit and save changes. The 'Q' option should be used with extreme care because if **visudo** believes there to be a parse error, so will **sudo** and no one will be able to **sudo** again until the error is fixed. If 'e' is typed to edit the *sudoers* file after a parse error has been detected, the cursor will be placed on the line where the error occurred (if the editor supports this feature).

The options are as follows:

-c, --check Enable *check-only* mode. The existing *sudoers* file will be checked for syntax errors, owner and mode. A message will be printed to the standard output describing the status of *sudoers* unless the **-q** option was specified. If the check completes successfully, **visudo** will exit with a value of 0. If an error is encountered, **visudo** will exit with a value of 1.

-f *sudoers*, --file=*sudoers*

Specify an alternate *sudoers* file location. With this option, **visudo** will edit (or check) the *sudoers* file of your choice, instead of the default, */etc/sudoers*. The lock file used is the specified *sudoers* file with ".tmp" appended to it. In *check-only* mode only, the argument to **-f** may be '-', indicating that *sudoers* will be read from the standard input.

- h, --help** Display a short help message to the standard output and exit.
- q, --quiet** Enable *quiet* mode. In this mode details about syntax errors are not printed. This option is only useful when combined with the **-c** option.
- s, --strict** Enable *strict* checking of the *sudoers* file. If an alias is used before it is defined, **visudo** will consider this a parse error. Note that it is not possible to differentiate between an alias and a host name or user name that consists solely of uppercase letters, digits, and the underscore (‘_’) character.
- V, --version** Print the **visudo** and *sudoers* grammar versions and exit.
- x output_file, --export=output_file**
Export a *sudoers* in JSON format and write it to *output_file*. If *output_file* is ‘-’, the exported *sudoers* policy will be written to the standard output. By default, */etc/sudoers* (and any files it includes) will be exported. The **-f** option can be used to specify a different *sudoers* file to export. The exported format is intended to be easier for third-party applications to parse than the traditional *sudoers* format. The various values have explicit types which removes much of the ambiguity of the *sudoers* format.

ENVIRONMENT

The following environment variables may be consulted depending on the value of the *editor* and *env_editor sudoers* settings:

VISUAL	Invoked by visudo as the editor to use
EDITOR	Used by visudo if VISUAL is not set

FILES

<i>/etc/sudoers</i>	List of who can run what
<i>/etc/sudoers.tmp</i>	Lock file for visudo

DIAGNOSTICS

sudoers file busy, try again later.

Someone else is currently editing the *sudoers* file.

/etc/sudoers.tmp: Permission denied

You didn't run **visudo** as root.

Can't find you in the passwd database

Your user ID does not appear in the system passwd file.

Warning: {User,Runas,Host,Cmnd}_Alias referenced but not defined

Either you are trying to use an undeclared {User,Runas,Host,Cmnd}_Alias or you have a user or host name listed that consists solely of uppercase letters, digits, and the underscore ('_') character. In the latter case, you can ignore the warnings (**sudo** will not complain). In **-s** (strict) mode these are errors, not warnings.

Warning: unused {User,Runas,Host,Cmnd}_Alias

The specified {User,Runas,Host,Cmnd}_Alias was defined but never used. You may wish to comment out or remove the unused alias.

Warning: cycle in {User,Runas,Host,Cmnd}_Alias

The specified {User,Runas,Host,Cmnd}_Alias includes a reference to itself, either directly or through an alias it includes. This is only a warning by default as **sudo** will ignore cycles when parsing the *sudoers* file.

visudo: /etc/sudoers: input and output files must be different

The **-x** flag was used and the specified *output_file* has the same path name as the *sudoers* file to export.

SEE ALSO

vi(1), sudoers(5), sudo(8), vipw(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/sudo/contributors.html>) for an exhaustive list of people who have contributed to **sudo**.

CAVEATS

There is no easy way to prevent a user from gaining a root shell if the editor used by **visudo** allows shell escapes.

BUGS

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

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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