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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'umount.8' command

\$ man umount.8

UMOUNT(8) System Administration UMOUNT(8)

NAME

umount - unmount filesystems

SYNOPSIS

```
umount [-a [-dflnrv] [-t fstype] [-O option...]]
```

umount [-dflnrv] {directory|device}

umount -h|-V

DESCRIPTION

The `umount` command detaches the mentioned filesystem(s) from the file hierarchy. A filesystem is specified by giving the directory where it has been mounted. Giving the special device on which the filesystem lives may also work, but is obsolete, mainly because it will fail in case this device was mounted on more than one directory.

Note that a filesystem cannot be unmounted when it is 'busy' - for example, when there are open files on it, or when some process has its working directory there, or when a swap file on it is in use. The offending process could even be umount itself - it opens libc, and libc in its turn may open for example locale files. A lazy unmount avoids this problem, but it may introduce other issues. See --lazy description below.

OPTIONS

-a, --all

All of the filesystems described in /proc/self/mountinfo (or in

deprecated /etc/mtab) are unmounted, except the proc, devfs, devpts, sysfs, rpc_pipefs and nfsd filesystems. This list of the filesystems may be replaced by --types umount option.

-A, --all-targets

Unmount all mountpoints in the current mount namespace for the specified filesystem. The filesystem can be specified by one of the mountpoints or the device name (or UUID, etc.). When this option is used together with --recursive, then all nested mounts within the filesystem are recursively unmounted. This option is only supported on systems where /etc/mtab is a symlink to /proc/mounts.

-c, --no-canonicalize

Do not canonicalize paths. The paths canonicalization is based on stat(2) and readlink(2) system calls. These system calls may hang in some cases (for example on NFS if server is not available). The option has to be used with canonical path to the mount point.

This option is silently ignored by umount for non-root users.

For more details about this option see the mount(8) man page. Note that umount does not pass this option to the /sbin/umount.type helpers.

-d, --detach-loop

When the unmounted device was a loop device, also free this loop device. This option is unnecessary for devices initialized by mount(8), in this case "autoclear" functionality is enabled by default.

--fake

Causes everything to be done except for the actual system call or umount helper execution; this 'fakes' unmounting the filesystem. It can be used to remove entries from the deprecated /etc/mtab that were unmounted earlier with the -n option.

-f, --force

Force an umount (in case of an unreachable NFS system).

Note that this option does not guarantee that umount command does not hang. It's strongly recommended to use absolute paths without

symlinks to avoid unwanted readlink and stat system calls on
unreachable NFS in umount.

-i, --internal-only

Do not call the /sbin/umount.filesystem helper even if it exists.

By default such a helper program is called if it exists.

-l, --lazy

Lazy umount. Detach the filesystem from the file hierarchy now,
and clean up all references to this filesystem as soon as it is not
busy anymore.

A system reboot would be expected in near future if you're going to
use this option for network filesystem or local filesystem with
submounts. The recommended use-case for umount -l is to prevent
hangs on shutdown due to an unreachable network share where a
normal umount will hang due to a downed server or a network
partition. Remounts of the share will not be possible.

-N, --namespace ns

Perform umount in the mount namespace specified by ns. ns is either
PID of process running in that namespace or special file
representing that namespace.

umount switches to the namespace when it reads /etc/fstab, writes
/etc/mtab (or writes to /run/mount) and calls umount(2) system
call, otherwise it runs in the original namespace. It means that
the target mount namespace does not have to contain any libraries
or other requirements necessary to execute umount(2) command.

See mount_namespaces(7) for more information.

-n, --no-mtab

Unmount without writing in /etc/mtab.

-O, --test-opts option...

Unmount only the filesystems that have the specified option set in
/etc/fstab. More than one option may be specified in a
comma-separated list. Each option can be prefixed with no to
indicate that no action should be taken for this option.

-q, --quiet

Suppress "not mounted" error messages.

-R, --recursive

Recursively unmount each specified directory. Recursion for each directory will stop if any unmount operation in the chain fails for any reason. The relationship between mountpoints is determined by /proc/self/mountinfo entries. The filesystem must be specified by mountpoint path; a recursive unmount by device name (or UUID) is unsupported. Since version 2.37 it unmounts also all over-mounted filesystems (more filesystems on the same mountpoint).

-r, --read-only

When an unmount fails, try to remount the filesystem read-only.

-t, --types type...

Indicate that the actions should only be taken on filesystems of the specified type. More than one type may be specified in a comma-separated list. The list of filesystem types can be prefixed with no to indicate that no action should be taken for all of the mentioned types. Note that umount reads information about mounted filesystems from kernel (/proc/mounts) and filesystem names may be different than filesystem names used in the /etc/fstab (e.g., "nfs4" vs. "nfs").

-v, --verbose

Verbose mode.

-V, --version

Display version information and exit.

-h, --help

Display help text and exit.

NON-SUPERUSER UMTENTS

Normally, only the superuser can umount filesystems. However, when fstab contains the user option on a line, anybody can umount the corresponding filesystem. For more details see mount(8) man page. Since version 2.34 the umount command can be used to perform umount operation also for fuse filesystems if kernel mount table contains user's ID. In this case fstab user= mount option is not required.

Since version 2.35 umount command does not exit when user permissions are inadequate by internal libmount security rules. It drops uid permissions and continue as regular non-root user. This can be used to support use-cases where root permissions are not necessary (e.g., fuse filesystems, user namespaces, etc).

LOOP DEVICE

The umount command will automatically detach loop device previously initialized by mount(8) command independently of /etc/mtab.

In this case the device is initialized with "autoclear" flag (see losetup(8) output for more details), otherwise it's necessary to use the option --detach-loop or call losetup -d <device>. The autoclear feature is supported since Linux 2.6.25.

EXTERNAL HELPERS

The syntax of external umount helpers is:

```
umount.suffix {directory|device} [-flnrv] [-N namespace] [-t  
type.subtype]
```

where suffix is the filesystem type (or the value from a uhelper= or helper= marker in the mtab file). The -t option can be used for filesystems that have subtype support. For example:

```
umount.fuse -t fuse.sshfs
```

A uhelper=something marker (unprivileged helper) can appear in the /etc/mtab file when ordinary users need to be able to umount a mountpoint that is not defined in /etc/fstab (for example for a device that was mounted by udisks(1)).

A helper=type marker in the mtab file will redirect all umount requests to the /sbin/umount.type helper independently of UID.

Note that /etc/mtab is currently deprecated and helper= and other userspace mount options are maintained by libmount.

ENVIRONMENT

LIBMOUNT_FSTAB=<path>

overrides the default location of the fstab file (ignored for uid)

LIBMOUNT_MTAB=<path>

overrides the default location of the mtab file (ignored for uid)

LIBMOUNT_DEBUG=all

enables libmount debug output

FILES

/etc/mtab

table of mounted filesystems (deprecated and usually replaced by
symlink to /proc/mounts)

/etc/fstab

table of known filesystems

/proc/self/mountinfo

table of mounted filesystems generated by kernel.

HISTORY

A umount command appeared in Version 6 AT&T UNIX.

SEE ALSO

umount(2), losetup(8), mount_namespaces(7), mount(8)

REPORTING BUGS

For bug reports, use the issue tracker at

<https://github.com/karelzak/util-linux/issues>.

AVAILABILITY

The umount command is part of the util-linux package which can be
downloaded from Linux Kernel Archive
<https://www.kernel.org/pub/linux/utils/util-linux/>.

util-linux 2.37.4

2022-02-14

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