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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'multipath.8'***

#### ***\$ man multipath.8***

MULTIPATH(8)            System Manager's Manual            MULTIPATH(8)

#### NAME

    multipath - Device mapper target autoconfig.

#### SYNOPSIS

    multipath [-v level] [-B|-d|-i|-q|-r] [-b file] [-p policy] [device]

    multipath [-v level] [-R retries] -f device

    multipath [-v level] [-R retries] -F

    multipath [-v level] [-l|-ll] [device]

    multipath [-v level] [-a|-w] device

    multipath [-v level] [-A|-W]

    multipath [-v level] [-i] [-c|-C] device

    multipath [-v level] [-i] [-u|-U]

    multipath [-h|-t|-T]

#### DESCRIPTION

    multipath is used to detect and coalesce multiple paths to devices, for fail-over or performance reasons.

#### ARGUMENTS

    The device argument restricts multipath's operation to devices matching

the given expression. The argument may refer either to a multipath map or to its components ("paths"). The expression may be in one of the following formats:

device node file name of a device node, e.g. /dev/dm-10 or /dev/sda.

If the node refers to an existing device mapper device representing a multipath map, this selects the map or its paths, depending on the operation mode. Otherwise, it selects a path device.

device ID kernel device number specified by major:minor numbers, e.g. 65:16. This format can only be used for path devices.

WWID a World Wide Identifier matching a multipath map or its paths. To list WWIDs of devices present in the system, use e.g. the command "multipath -d -v3 2>/dev/null".

## OPERATION MODES

The default operation mode is to detect and set up multipath maps from the devices found in the system. Other operation modes are chosen by using one of the following command line switches:

- f Flush (remove) a multipath device map specified as parameter, if unused. This operation is delegated to the multipathd daemon if it's running.
- F Flush (remove) all unused multipath device maps. This operation is delegated to the multipathd daemon if it's running.
- l Show ("list") the current multipath topology from information fetched in sysfs and the device mapper.
- ll Show ("list") the current multipath topology from all available information (sysfs, the device mapper, path checkers ...).
- a Add the WWID for the specified device to the WWIDs file.
- A Add the WWIDs from any kernel command line mpath.wwid parameters to the WWIDs file.
- w Remove the WWID for the specified device from the WWIDs file.
- W Reset the WWIDs file to only include the current multipath devices.

- c Check if a block device should be a path in a multipath device.
- C Check if a multipath device has usable paths. This can be used to test whether or not I/O on this device is likely to succeed. The command itself doesn't attempt to do I/O on the device.
- u Check if the device specified in the program environment should be a path in a multipath device.
- U Check if the device specified in the program environment is a multipath device with usable paths. See -C.
- h Print usage text.
- t Display the currently used multipathd configuration.
- T Display the currently used multipathd configuration, limiting the output to those devices actually present in the system. This can be used as a template for creating multipath.conf.

## OPTIONS

### -v level

Verbosity of information printed to stdout in default and "list" operation modes. The default level is -v 2.

- 0 Nothing is printed.
- 1 In default mode, Names/WWIDs of created or modified multipath maps are printed. In list mode, WWIDs of all multipath maps are printed.
- 2 In default mode, Topology of created or modified multipath maps is printed. In list mode, topology of all multipath maps is printed.
- 3 All detected paths and the topology of all multipath maps are printed.

The verbosity level also controls the level of log and debug messages printed to stderr. The default level corresponds to LOG\_NOTICE (important messages that shouldn't be missed in normal operation).

- d Dry run, do not create or update devmaps.
- e Enable all foreign libraries. This overrides the enable\_foreign option from multipath.conf(5).

- i Ignore WWIDs file when processing devices. If `find_multipaths strict` or `find_multipaths no` is set in `multipath.conf`, `multipath` only considers devices that are listed in the `WWIDs` file. This option overrides that behavior. For other values of `find_multi? paths`, this option has no effect. See the description of `find_multipaths` in `multipath.conf(5)`. This option should only be used in rare circumstances.
- B Treat the bindings file as read only.
- b file  
Set `user_friendly_names` bindings file location. The default is `/etc/multipath/bindings`.
- q Don't unset the device mapper feature `queue_if_no_path` for `multipath maps`. Normally, `multipath` would do so if `multipathd` is not running, because only a running `multipath` daemon guarantees that unusable paths are reinstated when they become usable again.
- p policy  
Force new maps to use the specified policy, overriding the configuration in `multipath.conf(5)`. The possible values for `policy` are the same as the values for `path_grouping_policy` in `multipath.conf(5)`. Existing maps are not modified.
- r Force a reload of all existing `multipath maps`. This command is delegated to the `multipathd` daemon if it's running. In this case, other command line switches of the `multipath` command have no effect.
- R retries  
Number of times to retry flushing `multipath` devices that are in use. The default is 0.

## SEE ALSO

`multipathd(8)`, `multipath.conf(5)`, `kpartx(8)`, `udev(8)`, `dmsetup(8)`, `hotplug(8)`.

## AUTHORS

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