



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

\$ man pvresize.8

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

NAME

pvresize ? Resize physical volume(s)

SYNOPSIS

pvresize position_args
[option_args]

DESCRIPTION

pvresize resizes a PV. The PV may already be in a VG and may have ac?
tive LVs allocated on it.

USAGE

pvresize PV ...
[--setphysicalvolumesize Size[m|UNIT]]
[--reportformat basic|json|json_std]
[COMMON_OPTIONS]

Common options for lvm:

[-d|--debug]
[-h|--help]
[-q|--quiet]
[-t|--test]
[-v|--verbose]
[-y|--yes]
[--commandprofile String]
[--config String]

- [--devices PV]
- [--devicesfile String]
- [--driverloaded y|n]
- [--journal String]
- [--lockopt String]
- [--longhelp]
- [--nohints]
- [--nolocking]
- [--profile String]
- [--version]

OPTIONS

`--commandprofile` String

The command profile to use for command configuration. See `lvm.conf(5)` for more information about profiles.

`--config` String

Config settings for the command. These override `lvm.conf(5)` settings. The String arg uses the same format as `lvm.conf(5)`, or may use section/field syntax. See `lvm.conf(5)` for more information about config.

`-d|--debug` ...

Set debug level. Repeat from 1 to 6 times to increase the detail of messages sent to the log file and/or syslog (if configured).

`--devices` PV

Restricts the devices that are visible and accessible to the command. Devices not listed will appear to be missing. This option can be repeated, or accepts a comma separated list of devices. This overrides the devices file.

`--devicesfile` String

A file listing devices that LVM should use. The file must exist in `/etc/lvm/devices/` and is managed with the `lvmdevices(8)` command. This overrides the `lvm.conf(5)` `devices/devicesfile` and `devices/use_devicesfile` settings.

`--driverloaded` y|n

If set to no, the command will not attempt to use device-mapper.

For testing and debugging.

`-h|--help`

Display help text.

`--journal String`

Record information in the systemd journal. This information is in addition to information enabled by the `lvm.conf log/journal` setting. `command`: record information about the command. `output`: record the default command output. `debug`: record full command debugging.

`--lockopt String`

Used to pass options for special cases to `lvmlockd`. See `lvmlockd(8)` for more information.

`--longhelp`

Display long help text.

`--nohints`

Do not use the hints file to locate devices for PVs. A command may read more devices to find PVs when hints are not used. The command will still perform standard hint file invalidation where appropriate.

`--nolocking`

Disable locking. Use with caution, concurrent commands may produce incorrect results.

`--profile String`

An alias for `--commandprofile` or `--metadataprofile`, depending on the command.

`-q|--quiet ...`

Suppress output and log messages. Overrides `--debug` and `--verbose`. Repeat once to also suppress any prompts with answer 'no'.

`--reportformat basic|json|json_std`

Overrides current output format for reports which is defined globally by the `report/output_format` setting in `lvm.conf(5)`.

basic is the original format with columns and rows. If there is more than one report per command, each report is prefixed with the report name for identification. json produces report output in JSON format. json_std produces report output in JSON format which is more compliant with JSON standard. See lvmreport(7) for more information.

`--setphysicalvolumesize Size[m|UNIT]`

Overrides the automatically detected size of the PV. Use with care, or prior to reducing the physical size of the device.

`-t|--test`

Run in test mode. Commands will not update metadata. This is implemented by disabling all metadata writing but nevertheless returning success to the calling function. This may lead to unusual error messages in multi-stage operations if a tool relies on reading back metadata it believes has changed but hasn't.

`-v|--verbose ...`

Set verbose level. Repeat from 1 to 4 times to increase the default tail of messages sent to stdout and stderr.

`--version`

Display version information.

`-y|--yes`

Do not prompt for confirmation interactively but always assume the answer yes. Use with extreme caution. (For automatic no, see -qq.)

VARIABLES

PV Physical Volume name, a device path under /dev. For commands managing physical extents, a PV positional arg generally accepts a suffix indicating a range (or multiple ranges) of physical extents (PEs). When the first PE is omitted, it defaults to the start of the device, and when the last PE is omitted it defaults to end. Start and end range (inclusive): PV[:PE-PE]... Start and length range (counting from 0): PV[:PE+PE]...

String See the option description for information about the string con?

tent.

Size[UNIT]

Size is an input number that accepts an optional unit. Input units are always treated as base two values, regardless of capitalization, e.g. 'k' and 'K' both refer to 1024. The default input unit is specified by letter, followed by |UNIT. UNIT represents other possible input units: b|B is bytes, s|S is sectors of 512 bytes, k|K is KiB, m|M is MiB, g|G is GiB, t|T is TiB, p|P is PiB, e|E is EiB. (This should not be confused with the output control --units, where capital letters mean multiple of 1000.)

ENVIRONMENT VARIABLES

See `lvm(8)` for information about environment variables used by `lvm`.

For example, `LVM_VG_NAME` can generally be substituted for a required VG parameter.

NOTES

`pvresize` will refuse to shrink a PV if it has allocated extents beyond the new end.

EXAMPLES

Expand a PV after enlarging the partition.

```
pvresize /dev/sda1
```

Shrink a PV prior to shrinking the partition (ensure that the PV size is appropriate for the intended new partition size).

```
pvresize --setphysicalvolumesize 40G /dev/sda1
```

SEE ALSO

`lvm(8)`, `lvm.conf(5)`, `lvmconfig(8)`, `lvmdevices(8)`,
`pvchange(8)`, `pvck(8)`, `pvcreate(8)`, `pvdisplay(8)`, `pvmove(8)`,
`pvremove(8)`, `pvresize(8)`, `pvs(8)`, `pvscan(8)`,
`vgcfgbackup(8)`, `vgcfgrestore(8)`, `vgchange(8)`, `vgck(8)`, `vgcreate(8)`,
`vgconvert(8)`, `vgdisplay(8)`, `vgexport(8)`, `vgextend(8)`, `vgimport(8)`,
`vgimportclone(8)`, `vgimportdevices(8)`, `vgmerge(8)`, `vgmknodes(8)`,
`vgreduce(8)`, `vgremove(8)`, `vgrename(8)`, `vgs(8)`, `vgscan(8)`, `vgsplit(8)`,
`lvcreate(8)`, `lvchange(8)`, `lvconvert(8)`, `lvdisplay(8)`, `lvextend(8)`,

lvreduce(8), lvremove(8), lvrename(8), lvresize(8), lvs(8), lvscan(8),
lvm-fullreport(8), lvm-lvpoll(8), blkdeactivate(8), lvmdump(8),
dmeventd(8), lvmpolld(8), lvmlockd(8), lvmlockctl(8), cmirror(8),
lvmdbusd(8), fsadm(8),
lvmsystemid(7), lvmreport(7), lvmraid(7), lvmthin(7), lvmcache(7)

Red Hat, Inc. LVM TOOLS 2.03.17(2) (2022-11-10) PVRESIZE(8)