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 active LVs allocated on it.

USAGE

pvresize *PV* ...
[**−−setphysicalvolumesize** *Size*[m|UNIT]]
[**−−reportformat basic|json**]
[COMMON_OPTIONS]

Common options for lvm:
[**−d|−−debug**]
[**−h|−−help**]
[**−q|−−quiet**]
[**−t|−−test**]
[**−v|−−verbose**]
[**−y|−−yes**]
[**−−commandprofile** *String*]
[**−−config** *String*]
[**−−driverloaded y|n**]
[**−−lockopt** *String*]
[**−−longhelp**]
[**−−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 settings. The String arg uses the same format as lvm.conf, 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).

−−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.

−−lockopt *String*

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

−−longhelp

Display long help text.

−−nolocking

Disable locking.

     −−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

        Overrides current output format for reports which is defined globally by the report/output_format setting in lvm.conf. **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. 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 detail 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 content.

     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: **bBsSkKmMgGtTpPeE**. b|B is bytes, s|S is sectors of 512 bytes, k|K is kilobytes, m|M is megabytes, g|G is gigabytes, t|T is terabytes, p|P is petabytes, e|E is exabytes. (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)

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) **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) **lvm2−activation−generator**(8) **blkdeactivate**(8) **lvmdump**(8)

dmeventd(8) **lvmpolld**(8) **lvmlockd**(8) **lvmlockctl**(8) **cmirrord**(8) **lvmdbusd**(8)

lvmsystemid(7) **lvmreport**(7) **lvmraid**(7) **lvmthin**(7) **lvmcache**(7)