

**NAME**

pvchange – Change attributes of physical volume(s)

**SYNOPSIS**

**pvchange** *option\_args position\_args*  
 [ *option\_args* ]

**DESCRIPTION**

pvchange changes PV attributes in the VG.

For options listed in parentheses, any one is required, after which the others are optional.

**USAGE**

Change properties of all PVs.

**pvchange -a|--all**  
 ( **-x|--allocatable y|n**,  
**-u|--uuid**,  
**--addtag Tag**,  
**--deltag Tag**,  
**--metadataignore y|n** )  
 [ COMMON\_OPTIONS ]

Change properties of specified PVs.

**pvchange**  
 ( **-x|--allocatable y|n**,  
**-u|--uuid**,  
**--addtag Tag**,  
**--deltag Tag**,  
**--metadataignore y|n** )  
*PV|Select ...*  
 [ **-S|--select String** ]  
 [ COMMON\_OPTIONS ]

Common options for command:

[ **-A|--autobackup y|n** ]  
 [ **-f|--force** ]  
 [ **-u|--uuid** ]  
 [ **--reportformat basic|json** ]

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

- addtag *Tag***  
Adds a tag to a PV, VG or LV. This option can be repeated to add multiple tags at once. See **lvm(8)** for information about tags.
- a|--all**  
Change all visible PVs.
- x|--allocatable *y|n***  
Enable or disable allocation of physical extents on this PV.
- A|--autobackup *y|n***  
Specifies if metadata should be backed up automatically after a change. Enabling this is strongly advised! See **vgcfgbackup(8)** for more information.
- 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).
- deltag *Tag***  
Deletes a tag from a PV, VG or LV. This option can be repeated to delete multiple tags at once. See **lvm(8)** for information about tags.
- driverloaded *y|n***  
If set to no, the command will not attempt to use device-mapper. For testing and debugging.
- f|--force ...**  
Override various checks, confirmations and protections. Use with extreme caution.
- 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.
- metadataignore *y|n***  
Specifies the **metadataignore** property of a PV. If yes, metadata areas on the PV are ignored, and **lvm** will not store metadata in the metadata areas of the PV. If no, **lvm** will store metadata on the PV.
- 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 **lvreport(7)** for more information.

**-S|--select** *String*

Select objects for processing and reporting based on specified criteria. The criteria syntax is described by **--select help** and **lvreport(7)**. For reporting commands, one row is displayed for each object matching the criteria. See **--options help** for selectable object fields. Rows can be displayed with an additional "selected" field (**-o selected**) showing 1 if the row matches the selection and 0 otherwise. For non-reporting commands which process LVM entities, the selection is used to choose items to process.

**-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.

**-u|--uuid**

Generate new random UUID for specified PVs.

**-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]...**

### *Select*

Select indicates that a required positional parameter can be omitted if the **--select** option is used. No arg appears in this position.

### *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: **bBsSkKmMg-GtTpPeE**. **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 **lvmd(8)** for information about environment variables used by **lvmd**. For example, **LVM\_VG\_NAME** can generally be substituted for a required VG parameter.

## EXAMPLES

Disallow the allocation of physical extents on a PV (e.g. because of disk errors, or because it will be removed after freeing it).

**pvchange -x n /dev/sdk1**

**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) vgrename(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) lv RAID(7) lvmthin(7) lvmcache(7)**