

**NAME**

**vgreduce** – Remove physical volume(s) from a volume group

**SYNOPSIS**

```
vgreduce option_args position_args
    [ option_args ]

-a|--all
-A|--autobackup y|n
    --commandprofile String
    --config String
-d|--debug
    --driverloaded y|n
-f|--force
-h|--help
    --lockopt String
    --longhelp
    --mirroronly
    --nolocking
    --profile String
-q|--quiet
    --removemissing
    --reportformat basic|json
-t|--test
-v|--verbose
    --version
-y|--yes
```

**DESCRIPTION**

**vgreduce** removes one or more unused PVs from a VG.

**USAGE**

Remove a PV from a VG.

```
vgreduce VG PV ...
    [ COMMON_OPTIONS ]
-
```

Remove all unused PVs from a VG.

```
vgreduce -a|--all VG
    [ COMMON_OPTIONS ]
-
```

Remove all missing PVs from a VG.

```
vgreduce --removemissing VG
    [ --mirroronly ]
    [ COMMON_OPTIONS ]
-
```

Common options for command:

```
[ -A|--autobackup y|n ]
[ -f|--force ]
[ --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

- a|--all**  
Removes all empty PVs if none are named on the command line.
- 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).
- 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.
- mirroronly**  
Only remove missing PVs from mirror LVs.
- 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'.

**--removemissing**

Removes all missing PVs from the VG, if there are no LVs allocated on them. This resumes normal operation of the VG (new LVs may again be created, changed and so on). If this is not possible because LVs are referencing the missing PVs, this option can be combined with **--force** to have the command remove any partial LVs. In this case, any LVs and dependent snapshots that were partly on the missing disks are removed completely, including those parts on disks that are still present. If LVs spanned several disks, including ones that are lost, salvaging some data first may be possible by activating LVs in partial mode.

**--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.

**-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***VG*

Volume Group name. See **lvm(8)** for valid names.

*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: **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 **lvm(8)** for information about environment variables used by lvm. For example, `LVM_VG_NAME` can generally be substituted for a required VG parameter.

**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) lvmraid(7) lvmthin(7) lvmcache(7)**