



Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!

Rocky Enterprise Linux 9.2 Manual Pages on command 'lvcreate.8'

\$ man lvcreate.8

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

NAME

lvcreate - Create a logical volume

SYNOPSIS

lvcreate option_args position_args

[option_args]

[position_args]

-a|--activate y|n|ay

--addtag Tag

--alloc contiguous|cling|cling_by_tags|normal|anywhere|inherit

-A|--autobackup y|n

-H|--cache

--cachedevice PV

--cachemetadateformat auto|1|2

--cachemode writethrough|writeback|passthrough

--cachepolicy String

--cachepool LV

--cachesettings String

--cachesize Size[m|UNIT]

--cachevol LV

-c|--chunksize Size[k|UNIT]

--commandprofile String

--compression y|n

--config String
-C|--contiguous y|n
-d|--debug
--deduplication y|n
--discards passdown|nopassdown|ignore
--driverloaded y|n
--errorwhenfull y|n
-l|--extents Number[PERCENT]
-h|--help
-K|--ignoreactivationskip
--ignoremonitoring
--lockopt String
--longhelp
-j|--major Number
--[raid]maxrecoveryrate Size[k|UNIT]
--metadataprofile String
--minor Number
--[raid]minrecoveryrate Size[k|UNIT]
--mirrorlog core|disk
-m|--mirrors Number
--monitor y|n
-n|--name String
--nolocking
--nosync
--noudevsync
-p|--permission rw|r
-M|--persistent y|n
--poolmetadatasize Size[m|UNIT]
--poolmetadataspare y|n
--profile String
-q|--quiet
--raidintegrity y|n
--raidintegrityblocksize Number

```

--raidintegritymode String
-r|--readahead auto|none|Number
-R|--regionsize Size[m|UNIT]
--reportformat basic|json
-k|--setactivationskip y|n
-L|--size Size[m|UNIT]
-s|--snapshot
-i|--stripes Number
-l|--stripesize Size[k|UNIT]
-t|--test
-T|--thin
--thinpool LV
--type linear|striped|snapshot|mir?
ror|raid|thin|cache|vdo|thin-pool|cache-pool|vdo-pool
--vdo
--vdopool LV
-v|--verbose
--version
-V|--virtualsize Size[m|UNIT]
-W|--wipesignatures y|n
-y|--yes
-Z|--zero y|n

```

DESCRIPTION

lvcreate creates a new LV in a VG. For standard LVs, this requires allocating logical extents from the VG's free physical extents. If there is not enough free space, the VG can be extended with other PVs (vgextend(8)), or existing LVs can be reduced or removed (lvre? move(8), lvreduce(8).)

To control which PVs a new LV will use, specify one or more PVs as position args at the end of the command line. lvcreate will allocate physical extents only from the specified PVs.

lvcreate can also create snapshots of existing LVs, e.g. for backup purposes. The data in a new snapshot LV represents the content of the original LV from the time the snapshot was created.

RAID LVs can be created by specifying an LV type when creating the LV (see `lvraid(7)`). Different RAID levels require different numbers of unique PVs be available in the VG for allocation.

Thin pools (for thin provisioning) and cache pools (for caching) are represented by special LVs with types `thin-pool` and `cache-pool` (see `lvthin(7)` and `lvncache(7)`). The pool LVs are not usable as standard block devices, but the LV names act as references to the pools.

Thin LVs are thinly provisioned from a thin pool, and are created with a virtual size rather than a physical size. A cache LV is the combination of a standard LV with a cache pool, used to cache active portions of the LV to improve performance.

VDO LVs are also provisioned volumes from a VDO pool, and are created with a virtual size rather than a physical size (see `lvmdo(7)`).

Usage notes

In the usage section below, `--size Size` can be replaced with `--extents Number`. See descriptions in the options section.

In the usage section below, `--name` is omitted from the required options, even though it is typically used. When the name is not specified, a new LV name is generated with the "lvol" prefix and a unique numeric suffix.

In the usage section below, when creating a pool and the name is omitted the new LV pool name is generated with the "vpool" for vdo-pools for prefix and a unique numeric suffix.

Pool name can be specified together with VG name i.e.: `vg00/mythinpool`.

USAGE

Create a linear LV.

```
lvcreate -L|--size Size[m|UNIT] VG
  [-|--extents Number[PERCENT] ]
  [ --type linear ]
  [ COMMON_OPTIONS ]
  [ PV ... ]
```

-

Create a striped LV (infers `--type striped`).

```
lvcreate -i|--stripes Number -L|--size Size[m|UNIT] VG
  [-|--extents Number[PERCENT] ]
  [-|--stripesize Size[k|UNIT] ]
```

[COMMON_OPTIONS]

[PV ...]

-
Create a raid1 or mirror LV (infers --type raid1|mirror).

lvcreate -m|--mirrors Number -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-R|--regionsize Size[m|UNIT]]

[--mirrorlog core|disk]

[--[raid]minrecoveryrate Size[k|UNIT]]

[--[raid]maxrecoveryrate Size[k|UNIT]]

[COMMON_OPTIONS]

[PV ...]

-
Create a raid LV (a specific raid level must be used, e.g. raid1).

lvcreate --type raid -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-m|--mirrors Number]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[-R|--regionsize Size[m|UNIT]]

[--[raid]minrecoveryrate Size[k|UNIT]]

[--[raid]maxrecoveryrate Size[k|UNIT]]

[--raidintegrity y|n]

[--raidintegritymode String]

[--raidintegrityblocksize Number]

[COMMON_OPTIONS]

[PV ...]

-
Create a raid10 LV.

lvcreate -m|--mirrors Number -i|--stripes Number

-L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-l|--stripesize Size[k|UNIT]]

[-R|--regionsize Size[m|UNIT]]
[--[raid]minrecoveryrate Size[k|UNIT]]
[--[raid]maxrecoveryrate Size[k|UNIT]]
[COMMON_OPTIONS]
[PV ...]

-

Create a COW snapshot LV of an origin LV.

lvcreate -s|--snapshot -L|--size Size[m|UNIT] LV

[-l|--extents Number[PERCENT]]
[-i|--stripes Number]
[-l|--stripesize Size[k|UNIT]]
[-c|--chunksize Size[k|UNIT]]
[--type snapshot]
[COMMON_OPTIONS]
[PV ...]

-

Create a thin pool.

lvcreate --type thin-pool -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]
[-c|--chunksize Size[k|UNIT]]
[-i|--stripes Number]
[-l|--stripesize Size[k|UNIT]]
[--thinpool LV_new]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]
[PV ...]

-

Create a cache pool.

lvcreate --type cache-pool -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-H|--cache]
[-c|--chunksize Size[k|UNIT]]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--cachemode writethrough|writeback|passthrough]
[--cachepolicy String]
[--cachesettings String]
[--cachemetadadataformat auto|1|2]
[COMMON_OPTIONS]
[PV ...]

-
Create a thin LV in a thin pool (infers --type thin).

lvcreate -V|--virtualsize Size[m|UNIT] --thinpool LV_thinpool VG

[-T|--thin]
[--type thin]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-
Create a thin LV that is a snapshot of an existing thin LV
(infers --type thin).

lvcreate -s|--snapshot LV_thin

[--type thin]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-
Create a thin LV that is a snapshot of an external origin LV.

lvcreate --type thin --thinpool LV_thinpool LV

[-T|--thin]
[-c|--chunksize Size[k|UNIT]]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]

[--discards passdown|nopassdown|ignore]

[--errorwhenfull y|n]

[COMMON_OPTIONS]

-

Create a LV that returns VDO when used.

lvcreate --type vdo -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-V|--virtualsize Size[m|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--vdo]

[--vdopool LV_new]

[--compression y|n]

[--deduplication y|n]

[COMMON_OPTIONS]

[PV ...]

-

Create a thin LV, first creating a thin pool for it,

where the new thin pool is named by the --thinpool arg.

lvcreate --type thin -V|--virtualsize Size[m|UNIT]

-L|--size Size[m|UNIT] --thinpool LV_new

[-l|--extents Number[PERCENT]]

[-T|--thin]

[-c|--chunksize Size[k|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--poolmetadatasize Size[m|UNIT]]

[--poolmetadataspare y|n]

[--discards passdown|nopassdown|ignore]

[--errorwhenfull y|n]

[COMMON_OPTIONS]

[PV ...]

-

Create a new LV, then attach the specified cachepool which converts the new LV to type cache.

```
lvcreate --type cache -L|--size Size[m|UNIT]
    --cachepool LV_cachepool VG
[ -l|--extents Number[PERCENT] ]
[ -H|--cache ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --poolmetadatasize Size[m|UNIT] ]
[ --poolmetadataspare y|n ]
[ --cachemode writethrough|writeback|passthrough ]
[ --cachepolicy String ]
[ --cachesettings String ]
[ --cachemetadadataformat auto|1|2 ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a new LV, then attach the specified cachevol which converts the new LV to type cache.

```
lvcreate --type cache -L|--size Size[m|UNIT]
    --cachevol LV VG
[ -l|--extents Number[PERCENT] ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --cachemode writethrough|writeback|passthrough ]
[ --cachepolicy String ]
[ --cachesettings String ]
[ --cachemetadadataformat auto|1|2 ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a new LV, then attach a cachevol created from the specified cache device, which converts the new LV to type cache.

```
lvcreate --type cache -L|--size Size[m|UNIT]
    --cachedevice PV VG
[ -l|--extents Number[PERCENT] ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --cachemode writethrough|writeback|passthrough ]
[ --cachepolicy String ]
[ --cachesettings String ]
[ --cachemetadadataformat auto|1|2 ]
[ --cachesize Size[m|UNIT] ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a new LV, then attach the specified cachevol which converts the new LV to type writecache.

```
lvcreate --type writecache -L|--size Size[m|UNIT]
    --cachevol LV VG
[ -l|--extents Number[PERCENT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --cachesettings String ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a new LV, then attach a cachevol created from the specified cache device, which converts the new LV to type writecache.

```
lvcreate --type writecache -L|--size Size[m|UNIT]
    --cachedevice PV VG
```

[-l|--extents Number[PERCENT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--cachesize Size[m|UNIT]]

[--cachesettings String]

[COMMON_OPTIONS]

[PV ...]

-

Common options for command:

[-a|--activate y|n|ay]

[-A|--autobackup y|n]

[-C|--contiguous y|n]

[-K|--ignoreactivationskip]

[-j|--major Number]

[-n|--name String]

[-p|--permission rw|r]

[-M|--persistent y|n]

[-r|--readahead auto|none|Number]

[-k|--setactivationskip y|n]

[-W|--wipesignatures y|n]

[-Z|--zero y|n]

[--addtag Tag]

[--alloc contiguous|cling|cling_by_tags|normal|anywhere|inherit]

[--ignoremonitoring]

[--metadataprofile String]

[--minor Number]

[--monitor y|n]

[--nosync]

[--noudevsync]

[--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|--activate y|n|ay

Controls the active state of the new LV. *y* makes the LV active, or available. New LVs are made active by default. *n* makes the LV inactive, or unavailable, only when possible. In some cases, creating an LV requires it to be active. For example, COW snapshots of an active origin LV can only be created in the active state (this does not apply to thin snapshots). The `--zero` option normally requires the LV to be active. If autoactivation *ay* is used, the LV is only activated if it matches an item in `lvm.conf activation/auto_activation_volume_list`. *ay* implies `--zero n` and `--wipesignatures n`. See `lvmlockd(8)` for more information about activation options for shared VGs.

--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.

--alloc contiguous|cling|cling_by_tags|normal|anywhere|inherit

Determines the allocation policy when a command needs to allocate Physical Extents (PEs) from the VG. Each VG and LV has an allocation policy which can be changed with `vgchange/lvchange`, or overridden on the command line. `normal` applies common sense rules such as not placing parallel stripes on the same PV. `inherit` applies the VG policy to an LV. `contiguous` requires new PEs be placed adjacent to existing PEs. `cling` places new PEs on the same PV as existing PEs in the same stripe of the

LV. If there are sufficient PEs for an allocation, but normal does not use them, anywhere will use them even if it reduces performance, e.g. by placing two stripes on the same PV. Optional positional PV args on the command line can also be used to limit which PVs the command will use for allocation. See `lvm(8)` for more information about allocation.

`-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.

`-H|--cache`

Specifies the command is handling a cache LV or cache pool. See `--type cache` and `--type cache-pool`. See `lvmcache(7)` for more information about LVM caching.

`--cachedevice PV`

The name of a device to use for a cache.

`--cachemetadatatype auto|1|2`

Specifies the cache metadata format used by cache target.

`--cachemode writethrough|writeback|passthrough`

Specifies when writes to a cache LV should be considered complete. `writeback` considers a write complete as soon as it is stored in the cache pool. `writethrough` considers a write complete only when it has been stored in both the cache pool and on the origin LV. While `writethrough` may be slower for writes, it is more resilient if something should happen to a device associated with the cache pool LV. With `passthrough`, all reads are served from the origin LV (all reads miss the cache) and all writes are forwarded to the origin LV; additionally, write hits cause cache block invalidates. See `lvmcache(7)` for more information.

`--cachepolicy String`

Specifies the cache policy for a cache LV. See `lvmcache(7)` for more information.

`--cachepool LV`

The name of a cache pool.

`--cachesettings String`

Specifies tunable values for a cache LV in "Key = Value" form. Repeat this option to specify multiple values. (The default values should usually be adequate.) The special string value `default` switches settings back to their default kernel values and removes them from the list of settings stored in LVM metadata. See `lvmcache(7)`

for more information.

`--cachesize Size[m|UNIT]`

The size of cache to use.

`--cachevol LV`

The name of a cache volume.

`-c|--chunksize Size[k|UNIT]`

The size of chunks in a snapshot, cache pool or thin pool. For snapshots, the value must be a power of 2 between 4KiB and 512KiB and the default value is 4. For a cache pool the value must be between 32KiB and 1GiB and the default value is 64. For a thin pool the value must be between 64KiB and 1GiB and the default value starts with 64 and scales up to fit the pool metadata size within 128MiB, if the pool metadata size is not specified. The value must be a multiple of 64KiB. See `lvmthin(7)` and `lvmcache(7)` for more information.

`--commandprofile String`

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

`--compression y|n`

Controls whether compression is enabled or disabled for VDO volume. See `lvmvdo(7)` for more information about VDO usage.

`--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.

`-C|--contiguous y|n`

Sets or resets the contiguous allocation policy for LVs. Default is no contiguous allocation based on a next free principle. It is only possible to change a non-contiguous allocation policy to contiguous if all of the allocated physical extents in the LV are already contiguous.

`-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).

`--deduplication y|n`

Controls whether deduplication is enabled or disabled for VDO volume. See `lvmvdo(7)`

for more information about VDO usage.

`--discards passdown|nopassdown|ignore`

Specifies how the device-mapper thin pool layer in the kernel should handle discards. `ignore` causes the thin pool to ignore discards. `nopassdown` causes the thin pool to process discards itself to allow reuse of unneeded extents in the thin pool. `passdown` causes the thin pool to process discards itself (like `nopassdown`) and pass the discards to the underlying device. See `lvmthin(7)` for more information.

`--driverloaded y|n`

If set to `no`, the command will not attempt to use device-mapper. For testing and debugging.

`--errorwhenfull y|n`

Specifies thin pool behavior when data space is exhausted. When `yes`, device-mapper will immediately return an error when a thin pool is full and an I/O request requires space. When `no`, device-mapper will queue these I/O requests for a period of time to allow the thin pool to be extended. Errors are returned if no space is available after the timeout. (Also see `dm-thin-pool` kernel module option `no_space_timeout`.) See `lvmthin(7)` for more information.

`-l|--extents Number[PERCENT]`

Specifies the size of the new LV in logical extents. The `--size` and `--extents` options are alternate methods of specifying size. The total number of physical extents used will be greater when redundant data is needed for RAID levels. An alternate syntax allows the size to be determined indirectly as a percentage of the size of a related VG, LV, or set of PVs. The suffix `%VG` denotes the total size of the VG, the suffix `%FREE` the remaining free space in the VG, and the suffix `%PVS` the free space in the specified PVs. For a snapshot, the size can be expressed as a percentage of the total size of the origin LV with the suffix `%ORIGIN` (`100%ORIGIN` provides space for the whole origin). When expressed as a percentage, the size defines an upper limit for the number of logical extents in the new LV. The precise number of logical extents in the new LV is not determined until the command has completed.

`-h|--help`

Display help text.

`-K|--ignoreactivationskip`

Ignore the "activation skip" LV flag during activation to allow LVs with the flag set to be activated.

`--ignoremonitoring`

Do not interact with `dmeventd` unless `--monitor` is specified. Do not use this if `dmeventd` is already monitoring a device.

`--lockopt` String

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

`--longhelp`

Display long help text.

`-j|--major` Number

Sets the major number of an LV block device.

`--[raid]maxrecoveryrate` Size[k|UNIT]

Sets the maximum recovery rate for a RAID LV. The rate value is an amount of data per second for each device in the array. Setting the rate to 0 means it will be unbounded. See `lvmraid(7)` for more information.

`--metadataprofile` String

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

`--minor` Number

Sets the minor number of an LV block device.

`--[raid]minrecoveryrate` Size[k|UNIT]

Sets the minimum recovery rate for a RAID LV. The rate value is an amount of data per second for each device in the array. Setting the rate to 0 means it will be unbounded. See `lvmraid(7)` for more information.

`--mirrorlog` core|disk

Specifies the type of mirror log for LVs with the "mirror" type (does not apply to the "raid1" type.) `disk` is a persistent log and requires a small amount of storage space, usually on a separate device from the data being mirrored. `core` is not persistent; the log is kept only in memory. In this case, the mirror must be synchronized (by copying LV data from the first device to others) each time the LV is activated, e.g. after reboot. `mirrored` is a persistent log that is itself mirrored,

but should be avoided. Instead, use the raid1 type for log redundancy.

`-m|--mirrors` Number

Specifies the number of mirror images in addition to the original LV image, e.g.

`--mirrors 1` means there are two images of the data, the original and one mirror image. Optional positional PV args on the command line can specify the devices the images should be placed on. There are two mirroring implementations: "raid1" and "mirror". These are the names of the corresponding LV types, or "segment types".

Use the `--type` option to specify which to use (raid1 is default, and mirror is legacy) Use `lvm.conf global/mirror_segtype_default` and `global/raid10_segtype_default` to configure the default types. See the `--nosync` option for avoiding initial image synchronization. See `lvraid(7)` for more information.

`--monitor` y|n

Start (yes) or stop (no) monitoring an LV with `dmeventd`. `dmeventd` monitors kernel events for an LV, and performs automated maintenance for the LV in response to specific events. See `dmeventd(8)` for more information.

`-n|--name` String

Specifies the name of a new LV. When unspecified, a default name of "lvol#" is generated, where # is a number generated by LVM.

`--nolocking`

Disable locking.

`--nosync`

Causes the creation of mirror, raid1, raid4, raid5 and raid10 to skip the initial synchronization. In case of mirror, raid1 and raid10, any data written afterwards will be mirrored, but the original contents will not be copied. In case of raid4 and raid5, no parity blocks will be written, though any data written afterwards will cause parity blocks to be stored. This is useful for skipping a potentially long and resource intensive initial sync of an empty mirror/raid1/raid4/raid5 and raid10 LV. This option is not valid for raid6, because raid6 relies on parity (P and Q Syndromes) being created during initial synchronization in order to reconstruct proper user data in case of device failures. raid0 and raid0_meta do not provide any data copies or parity support and thus do not support initial synchronization.

`--noudevsync`

Disables udev synchronisation. The process will not wait for notification from udev. It will continue irrespective of any possible udev processing in the background. Only use this if udev is not running or has rules that ignore the devices LVM creates.

`-p|--permission rw|r`

Set access permission to read only r or read and write rw.

`-M|--persistent y|n`

When yes, makes the specified minor number persistent.

`--poolmetadatasize Size[m|UNIT]`

Specifies the size of the new pool metadata LV.

`--poolmetadataspare y|n`

Enable or disable the automatic creation and management of a spare pool metadata LV in the VG. A spare metadata LV is reserved space that can be used when repairing a pool.

`--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'.

`--raidintegrity y|n`

Enable or disable data integrity checksums for raid images.

`--raidintegrityblocksize Number`

The block size to use for dm-integrity on raid images. The integrity block size should usually match the device logical block size, or the file system block size. It may be less than the file system block size, but not less than the device logical block size. Possible values: 512, 1024, 2048, 4096.

`--raidintegritymode String`

Use a journal (default) or bitmap for keeping integrity checksums consistent in case of a crash. The bitmap areas are recalculated after a crash, so corruption in those areas would not be detected. A journal does not have this problem. The journal mode doubles writes to storage, but can improve performance for scattered writes packed into a single journal write. bitmap mode can in theory achieve full write throughput of the device, but would not benefit from the potential scattered

write optimization.

`-r|--readahead auto|none|Number`

Sets read ahead sector count of an LV. `auto` is the default which allows the kernel to choose a suitable value automatically. `none` is equivalent to zero.

`-R|--regionsize Size[m|UNIT]`

Size of each raid or mirror synchronization region. `lvm.conf activation/raid_region_size` can be used to configure a default.

`--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.

`-k|--setactivationskip y|n`

Persistently sets (yes) or clears (no) the "activation skip" flag on an LV. An LV with this flag set is not activated unless the `--ignoreactivationskip` option is used by the activation command. This flag is set by default on new thin snapshot LVs. The flag is not applied to deactivation. The current value of the flag is indicated in the `lvs lv_attr` bits.

`-L|--size Size[m|UNIT]`

Specifies the size of the new LV. The `--size` and `--extents` options are alternate methods of specifying size. The total number of physical extents used will be greater when redundant data is needed for RAID levels.

`-s|--snapshot`

Create a snapshot. Snapshots provide a "frozen image" of an origin LV. The snapshot LV can be used, e.g. for backups, while the origin LV continues to be used. This option can create a COW (copy on write) snapshot, or a thin snapshot (in a thin pool.) Thin snapshots are created when the origin is a thin LV and the `size` option is NOT specified. Thin snapshots share the same blocks in the thin pool, and do not allocate new space from the VG. Thin snapshots are created with the "activation skip" flag, see `--setactivationskip`. A thin snapshot of a non-thin "external origin" LV is created when a thin pool is specified. Unprovisioned blocks in the thin snapshot LV are read from the external origin LV. The external origin LV

must be read-only. See `lvmthin(7)` for more information about LVM thin provisioning. COW snapshots are created when a size is specified. The size is allocated from space in the VG, and is the amount of space that can be used for saving COW blocks as writes occur to the origin or snapshot. The size chosen should depend upon the amount of writes that are expected; often 20% of the origin LV is enough. If COW space runs low, it can be extended with `lvextend` (shrinking is also allowed with `lvreduce`.) A small amount of the COW snapshot LV size is used to track COW block locations, so the full size is not available for COW data blocks. Use `lvs` to check how much space is used, and see `--monitor` to automatically extend the size to avoid running out of space.

`-i|--stripes Number`

Specifies the number of stripes in a striped LV. This is the number of PVs (devices) that a striped LV is spread across. Data that appears sequential in the LV is spread across multiple devices in units of the stripe size (see `--stripesize`). This does not change existing allocated space, but only applies to space being allocated by the command. When creating a RAID 4/5/6 LV, this number does not include the extra devices that are required for parity. The largest number depends on the RAID type (raid0: 64, raid10: 32, raid4/5: 63, raid6: 62), and when unspecified, the default depends on the RAID type (raid0: 2, raid10: 2, raid4/5: 3, raid6: 5.) To stripe a new raid LV across all PVs by default, see `lvm.conf allocation/raid_stripe_all_devices`.

`-l|--stripesize Size[k|UNIT]`

The amount of data that is written to one device before moving to the next in a striped LV.

`-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.

`-T|--thin`

Specifies the command is handling a thin LV or thin pool. See `--type thin`, `--type thin-pool`, and `--virtualsize`. See `lvmthin(7)` for more information about LVM thin provisioning.

--thinpool LV

The name of a thin pool LV.

--type linear|striped|snapshot|mirror|raid|thin|cache|vdo|thin-pool|cache-pool|vdo-pool

The LV type, also known as "segment type" or "segtype". See usage descriptions for the specific ways to use these types. For more information about redundancy and performance (raid<N>, mirror, striped, linear) see [lvmraid\(7\)](#). For thin provisioning (thin, thin-pool) see [lvmthin\(7\)](#). For performance caching (cache, cache-pool) see [lvmcache\(7\)](#). For copy-on-write snapshots (snapshot) see usage definitions. For VDO (vdo) see [lvmvdo\(7\)](#). Several commands omit an explicit type option because the type is inferred from other options or shortcuts (e.g. --stripes, --mirrors, --snapshot, --virtualsize, --thin, --cache, --vdo). Use inferred types with care because it can lead to unexpected results.

--vdo

Specifies the command is handling VDO LV. See --type vdo. See [lvmvdo\(7\)](#) for more information about VDO usage.

--vdopool LV

The name of a VDO pool LV. See [lvmvdo\(7\)](#) for more information about VDO usage.

-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.

-V|--virtualsize Size[m|UNIT]

The virtual size of a new thin LV. See [lvmthin\(7\)](#) for more information about LVM thin provisioning. Using virtual size (-V) and actual size (-L) together creates a sparse LV. `lvm.conf global/sparse_segtype_default` determines the default segment type used to create a sparse LV. Anything written to a sparse LV will be returned when reading from it. Reading from other areas of the LV will return blocks of zeros. When using a snapshot to create a sparse LV, a hidden virtual device is created using the zero target, and the LV has the suffix `_vorigin`. Snapshots are less efficient than thin provisioning when creating large sparse LVs (GiB).

-W|--wipesignatures y|n

Controls detection and subsequent wiping of signatures on new LVs. There is a

prompt for each signature detected to confirm its wiping (unless --yes is used to override confirmations.) When not specified, signatures are wiped whenever zeroing is done (see --zero). This behaviour can be configured with lvm.conf allocation/wipe_signatures_when_zeroing_new_lvs. If blkid wiping is used (lvm.conf allocation/use_blkid_wiping) and LVM is compiled with blkid wiping support, then the blkid(8) library is used to detect the signatures (use blkid -k to list the signatures that are recognized). Otherwise, native LVM code is used to detect signatures (only MD RAID, swap and LUKS signatures are detected in this case.) The LV is not wiped if the read only flag is set.

-y|--yes

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

-Z|--zero y|n

Controls zeroing of the first 4KiB of data in the new LV. Default is y. Snapshot COW volumes are always zeroed. For thin pools, this controls zeroing of provisioned blocks. LV is not zeroed if the read only flag is set. Warning: trying to mount an unzeroed LV can cause the system to hang.

VARIABLES

VG

Volume Group name. See lvm(8) for valid names. For lvcreate, the required VG positional arg may be omitted when the VG name is included in another option, e.g. --name VG/LV.

LV

Logical Volume name. See lvm(8) for valid names. An LV positional arg generally includes the VG name and LV name, e.g. VG/LV. LV followed by _<type> indicates that an LV of the given type is required. (raid represents raid<N> type)

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

ADVANCED USAGE

Alternate command forms, advanced command usage, and listing of all valid syntax for `lvcreate`.

Create an LV that returns errors when used.

```
lvcreate --type error -L|--size Size[m|UNIT] VG
```

```
[ -l|--extents Number[PERCENT] ]
```

```
[ COMMON_OPTIONS ]
```

-

Create an LV that returns zeros when read.

```
lvcreate --type zero -L|--size Size[m|UNIT] VG
```

```
[ -l|--extents Number[PERCENT] ]
```

```
[ COMMON_OPTIONS ]
```

-

Create a linear LV.

```
lvcreate --type linear -L|--size Size[m|UNIT] VG
```

```
[ -l|--extents Number[PERCENT] ]
```

```
[ COMMON_OPTIONS ]
```

```
[ PV ... ]
```

-

Create a striped LV (also see `lvcreate --stripes`).

lvcreate --type striped -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[COMMON_OPTIONS]

[PV ...]

-

Create a mirror LV (also see --type raid1).

lvcreate --type mirror -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-m|--mirrors Number]

[-R|--regionsize Size[m|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--mirrorlog core|disk]

[COMMON_OPTIONS]

[PV ...]

-

Create a COW snapshot LV of an origin LV

(also see --snapshot).

lvcreate --type snapshot -L|--size Size[m|UNIT] LV

[-l|--extents Number[PERCENT]]

[-s|--snapshot]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[-c|--chunksize Size[k|UNIT]]

[COMMON_OPTIONS]

[PV ...]

-

Create a sparse COW snapshot LV of a virtual origin LV

(also see --snapshot).

lvcreate --type snapshot -L|--size Size[m|UNIT]

-V|--virtualsize Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-s|--snapshot]

[-c|--chunksize Size[k|UNIT]]

[COMMON_OPTIONS]

[PV ...]

-

Create a sparse COW snapshot LV of a virtual origin LV.

lvcreate -s|--snapshot -L|--size Size[m|UNIT]

-V|--virtualsize Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-c|--chunksize Size[k|UNIT]]

[--type snapshot]

[COMMON_OPTIONS]

[PV ...]

-

Create a thin pool (infers --type thin-pool).

lvcreate -T|--thin -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-c|--chunksize Size[k|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--type thin-pool]

[--poolmetadatasize Size[m|UNIT]]

[--poolmetadataspare y|n]

[--discards passdown|nopassdown|ignore]

[--errorwhenfull y|n]

[COMMON_OPTIONS]

[PV ...]

-

Create a thin pool named by the --thinpool arg

(infers --type thin-pool).

lvcreate -L|--size Size[m|UNIT] --thinpool LV_new VG

[-l|--extents Number[PERCENT]]

[-T|--thin]
[-c|--chunksize Size[k|UNIT]]
[-i|--stripes Number]
[-l|--stripesize Size[k|UNIT]]
[--type thin-pool]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]
[PV ...]

-

Create a cache pool named by the --cachepool arg
(variant, uses --cachepool in place of --name).

lvcreate --type cache-pool -L|--size Size[m|UNIT]
 --cachepool LV_new VG
[-l|--extents Number[PERCENT]]
[-H|--cache]
[-c|--chunksize Size[k|UNIT]]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--cachemode writethrough|writeback|passthrough]
[--cachepolicy String]
[--cachesettings String]
[--cachemetadadataformat auto|1|2]
[COMMON_OPTIONS]
[PV ...]

-

Create a thin LV in a thin pool.

lvcreate --type thin -V|--virtualsize Size[m|UNIT]
 --thinpool LV_thinpool VG
[-T|--thin]
[-c|--chunksize Size[k|UNIT]]

[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-

Create a thin LV in a thin pool named in the first arg
(variant, also see --thinpool for naming pool).

lvcreate --type thin -V|--virtualsize Size[m|UNIT] LV_thinpool

[-T|--thin]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-

Create a thin LV in the thin pool named in the first arg
(variant, infers --type thin, also see --thinpool for
naming pool.)

lvcreate -V|--virtualsize Size[m|UNIT] LV_thinpool

[-T|--thin]
[--type thin]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-

Create a thin LV that is a snapshot of an existing thin LV.

lvcreate --type thin LV_thin

[-T|--thin]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]

-

Create a thin LV that is a snapshot of an existing thin LV
(infers --type thin).

lvcreate -T|--thin LV_thin

[--type thin]

[--discards passdown|nopassdown|ignore]

[--errorwhenfull y|n]

[COMMON_OPTIONS]

-

Create a thin LV that is a snapshot of an external origin LV
(infers --type thin).

lvcreate -s|--snapshot --thinpool LV_thinpool LV

[--type thin]

[--discards passdown|nopassdown|ignore]

[--errorwhenfull y|n]

[COMMON_OPTIONS]

-

Create a VDO LV with VDO pool.

lvcreate --vdo -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-V|--virtualsize Size[m|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--vdopool LV_new]

[--compression y|n]

[--deduplication y|n]

[COMMON_OPTIONS]

[PV ...]

-

Create a VDO LV with VDO pool.

lvcreate --vdopool LV_new -L|--size Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]

[-V|--virtualsize Size[m|UNIT]]

[-i|--stripes Number]

[-l|--stripesize Size[k|UNIT]]

[--vdo]

```
[ --type vdo ]
[ --compression y|n ]
[ --deduplication y|n ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a thin LV, first creating a thin pool for it,
where the new thin pool is named by the --thinpool arg
(variant, infers --type thin).

```
lvcreate -V|--virtualsize Size[m|UNIT] -L|--size Size[m|UNIT]
    --thinpool LV_new
[ -l|--extents Number[PERCENT] ]
[ -T|--thin ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --poolmetadatasize Size[m|UNIT] ]
[ --poolmetadataspare y|n ]
[ --discards passdown|nopassdown|ignore ]
[ --errorwhenfull y|n ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a thin LV, first creating a thin pool for it,
where the new thin pool is named by the --thinpool arg
(variant, infers --type thin).

```
lvcreate -V|--virtualsize Size[m|UNIT] -L|--size Size[m|UNIT]
    --thinpool LV_new VG
[ -l|--extents Number[PERCENT] ]
[ -T|--thin ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
```

```
[ --poolmetadatasize Size[m|UNIT] ]
[ --poolmetadataspare y|n ]
[ --discards passdown|nopassdown|ignore ]
[ --errorwhenfull y|n ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a thin LV, first creating a thin pool for it,
where the new thin pool is named in the first arg,
or the new thin pool name is generated when the first
arg is a VG name.

```
lvcreate --type thin -V|--virtualsize Size[m|UNIT]
    -L|--size Size[m|UNIT] VG|LV_new
[ -l|--extents Number[PERCENT] ]
[ -T|--thin ]
[ -c|--chunksize Size[k|UNIT] ]
[ -i|--stripes Number ]
[ -l|--stripesize Size[k|UNIT] ]
[ --poolmetadatasize Size[m|UNIT] ]
[ --poolmetadataspare y|n ]
[ --discards passdown|nopassdown|ignore ]
[ --errorwhenfull y|n ]
[ COMMON_OPTIONS ]
[ PV ... ]
```

-

Create a thin LV, first creating a thin pool for it,
where the new thin pool is named in the first arg,
or the new thin pool name is generated when the first
arg is a VG name (variant, infers --type thin).

```
lvcreate -T|--thin -V|--virtualsize Size[m|UNIT]
    -L|--size Size[m|UNIT] VG|LV_new
[ -l|--extents Number[PERCENT] ]
[ -c|--chunksize Size[k|UNIT] ]
```

[-i|--stripes Number]
[-l|--stripesize Size[k|UNIT]]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]
[PV ...]

-

Create a thin LV, first creating a thin pool for it
(infers --type thin).

Create a sparse snapshot of a virtual origin LV
(infers --type snapshot).

Chooses --type thin or --type snapshot according to
config setting sparse_segtype_default.

lvcreate -L|--size Size[m|UNIT] -V|--virtualsize Size[m|UNIT] VG

[-l|--extents Number[PERCENT]]
[-s|--snapshot]
[-c|--chunksize Size[k|UNIT]]
[-i|--stripes Number]
[-l|--stripesize Size[k|UNIT]]
[--type snapshot]
[--poolmetadatasize Size[m|UNIT]]
[--poolmetadataspare y|n]
[--discards passdown|nopassdown|ignore]
[--errorwhenfull y|n]
[COMMON_OPTIONS]
[PV ...]

-

Create a new LV, then attach the specified cachepool
which converts the new LV to type cache
(variant, infers --type cache.)

lvcreate -L|--size Size[m|UNIT] --cachepool LV_cachepool VG

[-l|--extents Number[PERCENT]]
 [-H|--cache]
 [-c|--chunksize Size[k|UNIT]]
 [-i|--stripes Number]
 [-l|--stripesize Size[k|UNIT]]
 [--type cache]
 [--cachemode writethrough|writeback|passthrough]
 [--cachepolicy String]
 [--cachesettings String]
 [--cachemetadatasize Size[m|UNIT]]
 [COMMON_OPTIONS]
 [PV ...]

-

Create a new LV, then attach the specified cachepool which converts the new LV to type cache.

(variant, also use --cachepool).

lvcreate --type cache -L|--size Size[m|UNIT] LV_cachepool

[-l|--extents Number[PERCENT]]
 [-H|--cache]
 [-c|--chunksize Size[k|UNIT]]
 [-i|--stripes Number]
 [-l|--stripesize Size[k|UNIT]]
 [--poolmetadatasize Size[m|UNIT]]
 [--poolmetadataspare y|n]
 [--cachemode writethrough|writeback|passthrough]
 [--cachepolicy String]
 [--cachesettings String]
 [--cachemetadatasize Size[m|UNIT]]
 [COMMON_OPTIONS]
 [PV ...]

-

When the LV arg is a cachepool, then create a new LV and attach the cachepool arg to it.

(variant, use `--type cache` and `--cachepool`.)

When the LV arg is not a cachepool, then create a new cachepool and attach it to the LV arg (alternative, use `lvconvert`.)

```
lvcreate -H|--cache -L|--size Size[m|UNIT] LV
```

```
[ -l|--extents Number[PERCENT] ]
```

```
[ -c|--chunksize Size[k|UNIT] ]
```

```
[ -i|--stripes Number ]
```

```
[ -l|--stripesize Size[k|UNIT] ]
```

```
[ --cachemode writethrough|writeback|passthrough ]
```

```
[ --cachepolicy String ]
```

```
[ --cachesettings String ]
```

```
[ --cachemetadadataformat auto|1|2 ]
```

```
[ --poolmetadatasize Size[m|UNIT] ]
```

```
[ --poolmetadataspare y|n ]
```

```
[ COMMON_OPTIONS ]
```

```
[ PV ... ]
```

-

EXAMPLES

Create a striped LV with 3 stripes, a stripe size of 8KiB and a size of 100MiB. The LV name is chosen by `lvcreate`.

```
lvcreate -i 3 -l 8 -L 100m vg00
```

Create a raid1 LV with two images, and a useable size of 500 MiB. This operation requires two devices, one for each mirror image. RAID metadata (superblock and bitmap) is also included on the two devices.

```
lvcreate --type raid1 -m1 -L 500m -n mylv vg00
```

Create a mirror LV with two images, and a useable size of 500 MiB. This operation requires three devices: two for mirror images and one for a disk log.

```
lvcreate --type mirror -m1 -L 500m -n mylv vg00
```

Create a mirror LV with 2 images, and a useable size of 500 MiB. This operation requires 2 devices because the log is in memory.

```
lvcreate --type mirror -m1 --mirrorlog core -L 500m -n mylv vg00
```

Create a copy-on-write snapshot of an LV:

```
lvcreate --snapshot --size 100m --name mysnap vg00/mylv
```

Create a copy-on-write snapshot with a size sufficient for overwriting 20% of the size of the original LV.

```
lvcreate -s -l 20%ORIGIN -n mysnap vg00/mylv
```

Create a sparse LV with 1TiB of virtual space, and actual space just under 100MiB.

```
lvcreate --snapshot --virtualsize 1t --size 100m --name mylv vg00
```

Create a linear LV with a usable size of 64MiB on specific physical extents.

```
lvcreate -L 64m -n mylv vg00 /dev/sda:0-7 /dev/sdb:0-7
```

Create a RAID5 LV with a usable size of 5GiB, 3 stripes, a stripe size of 64KiB, using a total of 4 devices (including one for parity).

```
lvcreate --type raid5 -L 5G -i 3 -l 64 -n mylv vg00
```

Create a RAID5 LV using all of the free space in the VG and spanning all the PVs in the VG (note that the command will fail if there are more than 8 PVs in the VG, in which case `-i 7` must be used to get to the current maximum of 8 devices including parity for RaidLVs).

```
lvcreate --config allocation/raid_stripe_all_devices=1
```

```
    --type raid5 -l 100%FREE -n mylv vg00
```

Create RAID10 LV with a usable size of 5GiB, using 2 stripes, each on a two-image mirror.

(Note that the `-i` and `-m` arguments behave differently: `-i` specifies the total number of stripes, but `-m` specifies the number of images in addition to the first image).

```
lvcreate --type raid10 -L 5G -i 2 -m 1 -n mylv vg00
```

Create a 1TiB thin LV `mythin`, with 256GiB thinpool `tpool0` in `vg00`.

```
lvcreate --T --size 256G --name mythin vg00/tpool0
```

Create a 1TiB thin LV, first creating a new thin pool for it, where the thin pool has 100MiB of space, uses 2 stripes, has a 64KiB stripe size, and 256KiB chunk size.

```
lvcreate --type thin --name mylv --thinpool mypool
```

```
    -V 1t -L 100m -i 2 -l 64 -c 256 vg00
```

Create a thin snapshot of a thin LV (the size option must not be used, otherwise a copy-on-write snapshot would be created).

```
lvcreate --snapshot --name mysnap vg00/thinlv
```

Create a thin snapshot of the read-only inactive LV named "origin" which becomes an external origin for the thin snapshot LV.

```
lvcreate --snapshot --name mysnap --thinpool mypool vg00/origin
```

Create a cache pool from a fast physical device. The cache pool can then be used to cache an LV.

```
lvcreate --type cache-pool -L 1G -n my_cpool vg00 /dev/fast1
```

Create a cache LV, first creating a new origin LV on a slow physical device, then combining the new origin LV with an existing cache pool.

```
lvcreate --type cache --cachepool my_cpool  
-L 100G -n mylv vg00 /dev/slow1
```

Create a VDO LV vdo0 with VDOPoolLV size of 10GiB and name vpool1.

```
lvcreate --vdo --size 10G --name vdo0 vg00/vpool1
```

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) pvs?
can(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) cmirror(8) lvmdbusd(8)

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

Red Hat, Inc.

LVM TOOLS 2.03.11(2) (2021-01-08)

LVCREATE(8)