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

$ man vgsplit.8

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

NAME

vgsplit ? Move physical volumes into a new or existing volume group

SYNOPSIS

vgsplit option_args position_args

[option_args]

DESCRIPTION

vgsplit moves one or more PVs from a source VG (the first VG arg) to a destination VG (the second VG arg). The PV(s) to move are named after the source and destination VGs, or an LV is named, in which case the PVs underlying the LV are moved.

If the destination VG does not exist, a new VG is created (command op? tions can be used to specify properties of the new VG, also see vgcre? ate(8)).

LVs cannot be split between VGs; each LV must be entirely on the PVs in the source or destination VG.

vgsplit can only move complete PVs. (See pvmove(8) for moving part of a PV.)

USAGE

Split a VG by specified PVs.

vgsplit VG VG PV ...

[COMMON_OPTIONS]

Split a VG by PVs in a specified LV.

vgsplit -n|--name LV VG VG

[COMMON_OPTIONS]

Common options for command:

[-A|--autobackup y|n]

[-l|--maxlogicalvolumes Number]

[-p|--maxphysicalvolumes Number]

[-M|--metadatatype lvm2]

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

]

[--poolmetadataspare y|n]

[--[vg]metadatacopies all|unmanaged|Number]

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

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

Determines the allocation policy when a command needs to allo?

cate 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.

--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.

-l|--maxlogicalvolumes Number

Sets the maximum number of LVs allowed in a VG.

-p|--maxphysicalvolumes Number

Sets the maximum number of PVs that can belong to the VG. The value 0 removes any limitation. For large numbers of PVs, also see options --pvmetadatacopies, and --vgmetadatacopies for improving performance.

-M|--metadatatype lvm2

Specifies the type of on-disk metadata to use. lvm2 (or just 2) is the current, standard format. lvm1 (or just 1) is no longer used.

-n|--name String

Move only PVs used by the named LV.

--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 pro? duce incorrect results.

--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 re? served 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 --ver? bose. Repeat once to also suppress any prompts with answer 'no'.

-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 un? usual 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 de? tail of messages sent to stdout and stderr.

--version

Display version information.

--[vg]metadatacopies all|unmanaged|Number

Number of copies of the VG metadata that are kept. VG metadata

is kept in VG metadata areas on PVs in the VG, i.e. reserved space at the start and/or end of the PVs. Keeping a copy of the VG metadata on every PV can reduce performance in VGs containing a large number of PVs. When this number is set to a non-zero value, LVM will automatically choose PVs on which to store meta? data, using the metadataignore flags on PVs to achieve the spec? ified number. The number can also be replaced with special string values: unmanaged causes LVM to not automatically manage the PV metadataignore flags. all causes LVM to first clear the metadataignore flags on all PVs, and then to become unmanaged.

-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 ex? tents (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 capi? talization, e.g. 'k' and 'K' both refer to 1024. The default input unit is specified by letter, followed by |UNIT. UNIT rep? resents 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.

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), cmirrord(8), lvmdbusd(8), fsadm(8), lvmsystemid(7), lvmreport(7), lvmraid(7), lvmthin(7), lvmcache(7)