

Products & Services 》 穴贾应 》 LVM reports "Cannot use device with duplicates."

LVM reports "Cannot use device with duplicates."

❷ SOLUTION 已验证 - 已更新 2018年六月7日05:10 - English ▼

环境

• Red Hat Enterprise Linux 7

问题

• When attempting to extend a VG, the below error is produced:

When attempting to create a new volume group, getting error
 Cannot use device /dev/mapper/mpatha with duplicates.

决议

- A custom filter will need to be set in /etc/lvm/lvm.conf, including the global filter.
- Example from /etc/lvm/lvm.conf:

```
filter = [ "a|^/dev/sda5$|", "a|/dev/emcpower.*|", "r|.*|" ]
global_filter = [ "a|^/dev/sda5$|, "a|/dev/emcpower.*|", "r|.*|" ]
```

• Once the filter is in place, the initramfs will need to be rebuilt. Then update the LVM cache and attempt to execute the vgextend command again.

```
# cp /boot/initramfs-$(uname -r).img /boot/initramfs-$(uname -r).img.$(date +%m-
%d-%H%M%S).bak
# dracut -f -v
# pvscan --cache
```

根源

• If there isn't a filter in place, then the lvm.conf file will default to accept all devices:

```
# This configuration option has an automatic default value. # filter = [ "a|.*/|" ]
```

诊断步骤

• Check /etc/lvm/lvm.conf for filters

```
# Example
# Accept every block device:
#filter = [ "a|.*/|" ]
# Reject the cdrom drive:
# filter = [ "r|/dev/cdrom|" ]
# Work with just loopback devices, e.g. for testing:
# filter = [ "a|loop|", "r|.*|" ]
# Accept all loop devices and ide drives except hdc:
# filter = [ "a|loop|", "r|/dev/hdc|", "a|/dev/ide|", "r|.*|" ]
# Use anchors to be very specific:
# filter = [ "a|^/dev/hda8$|", "r|.*/|" ]
# This configuration option has an automatic default value.
# filter = [ "a|.*/|" ]
# Configuration option devices/global filter.
# Limit the block devices that are used by LVM system components.
# Because devices/filter may be overridden from the command line, it is
# not suitable for system-wide device filtering, e.g. udev and lvmetad.
# Use global_filter to hide devices from these LVM system components.
# The syntax is the same as devices/filter. Devices rejected by
# global_filter are not opened by LVM.
# This configuration option has an automatic default value.
# global_filter = [ "a|.*/|" ]
```

• If the default filter is set, change to filter to match your system's configuration

```
filter = [ "a|^/dev/sda5$|", "a|/dev/emcpower.*|", "r|.*|" ]
global_filter = [ "a|^/dev/sda5$|, "a|/dev/emcpower.*|", "r|.*|" ]
```

产品 (第) Red Hat Enterprise Linux 元件 lvm2 类别 Configure

标记 configuration lvm lvm2 rhel rhel_7 storage

This solution is part of Red Hat's fast-track publication program, providing a huge library of solutions that Red Hat engineers have created while supporting our customers. To give you the knowledge you need the instant it becomes available, these articles may be presented in a raw and unedited form.

People who viewed this solution also viewed

Physical volume is not allocatable

Solution - 2017年12月21日

device-mapper duplicate PV warning messages

Solution - 2020年2月21日

I received the following error when trying to perform an online resize2fs: Inappropriate ioctl for device While trying to add group #400

Solution - 2013年9月26日





28 November 2018 3:55 AM

Kang Wei

COMMUNITY MEMBER

Be careful, There are two errors in the example:

32 Points

```
filter = [ "a|^/dev/sda5$|", "a|/dev/emcpower.*|", "r|.*|" ]
global_filter = [ "a|^/dev/sda5$|, "a|/dev/emcpower.*|", "r|.*|" ]
```

After the reboot, I have the following problems:

https://access.redhat.com/solutions/2515741 Messages "dracut-initqueue timeout - starting timeout scripts" are printed loop while booting then an Emergency shell is launched:

```
[ 193.845250] dracut-initqueue[779]: Warning: dracut-initqueue timeout -
starting timeout scripts
[...]
[ 198.557262] dracut-initqueue[779]: Warning: dracut-initqueue timeout -
starting timeout scripts
[ 198.557679] dracut-initqueue[779]: Warning: Could not boot.
[ 200.161146] dracut-initqueue[779]: Warning: /dev/rhel /root does not exist
[ 200.170895] systemd[1]: Starting Dracut Emergency Shell...
```

And I boot or reboot the system, I get the following message The message is A start job is running for dev-mapper....device.(4min 29s no limit).

Boot Red Hat Enterprise Linux to Rescue Mode:

https://access.redhat.com/articles/3405661 pvs output:

```
PV VG Fmt Attr PSize PFree

/dev/emcpowere vg_filefwms2 lvm2 a-- 1000.00g 0

/dev/emcpowerf vg_filefwms2 lvm2 a-- 1000.00g 0

/dev/emcpowerg vg_filefwms2 lvm2 a-- 1000.00g 0

/dev/emcpowerh vg_filefwms2 lvm2 a-- 1000.00g 0

/dev/emcpowerj zcvg_file_fwms lvm2 a-- 15.00t 0

/dev/emcpoweru vg_filefwms2 lvm2 a-- 1000.00g 0
```

Because a root logical volume cannot be found on the system. The correct configuration is as follows:

```
#from /etc/lvm/lvm.conf
filter = [ "a|/dev/sda[1-9]$|", "a|/dev/emcpower.*|", "r|.*|" ]
global_filter = [ "a|/dev/sda[1-9]$|", "a|/dev/emcpower.*|", "r|.*|" ]
```

Restore the initial ramdisk image using a backup and modify the wrong Settings in safe mode: https://access.redhat.com/solutions/1958?band=se#backup

pvs output:

```
[root@zcfj1 log]# pvscan --cache
 PV
                VG
                              Fmt Attr PSize
                                                 PFree
 /dev/emcpowere vg_filefwms2 lvm2 a-- 1000.00g
                                                    0
 /dev/emcpowerf vg_filefwms2 lvm2 a-- 1000.00g
                                                    0
 /dev/emcpowerg vg_filefwms2 lvm2 a-- 1000.00g
                              lvm2 a-- 1000.00g
 /dev/emcpowerh vg_filefwms2
                                                    0
 /dev/emcpowerj zcvg_file_fwms lvm2 a--
                                          15.00t
 /dev/emcpoweru vg_filefwms2 lvm2 a-- 1000.00g
                                                    0
 /dev/sda2
                rhel
                              lvm2 a--
                                         277.46g
```

▶ 回复



10 January 2020 2:46 PM

Chris Harrell

Hello I'm trying to extend an emcpower device to my logical volume and I'm still receiving the duplicates error when running vgextend.

● 回复

版权所有© 2021 Red Hat, Inc. 京ICP备09066747号