

ceph-volume - Bug #24952

ceph-volume fails to list osds (KeyError: 'devices')

07/16/2018 10:06 PM - Sébastien Han

Status:	Resolved	% Done:	0%
Priority:	Immediate		
Assignee:	Alfredo Deza		
Category:			
Target version:			
Source:		Affected Versions:	v12.2.6
Tags:		ceph-qa-suite:	
Backport:		Pull request ID:	
Regression:	No	Crash signature (v1):	
Severity:	3 - minor	Crash signature (v2):	
Reviewed:			

Description

```
[2018-07-16 22:04:05,983][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.cluster_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv2,ceph.data_uuid=8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b,ceph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uuid=obc6SR-cvkg-MbWh-cqC5-augU-hs4r-ha715Y,ceph.osd_fsid=106b105a-a7a2-49aa-901e-b2c8442f1c1a,ceph.osd_id=1,ceph.type=data,ceph.vdo=0";"/dev/test_group/data-lv2";"data-lv2";"test_group";"8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b
[2018-07-16 22:04:05,983][ceph_volume.process][INFO ] Running command: /usr/sbin/lvs --noheadings --readonly --separator=";" -o lv_tags,lv_path,lv_name,vg_name,lv_uuid
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] stdout ";"/dev/VolGroup00/LogVol100";"LogVol00";"VolGroup00";"j6b8IV-KEw3-7bTw-Oqy8-1Ud3-juFC-SJBg12
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] stdout ";"/dev/VolGroup00/LogVol01";"LogVol01";"VolGroup00";"IAjIC6-ScnM-tvH6-7BTy-TN31-hd82-bgDSzd
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.cluster_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv2,ceph.data_uuid=8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b,ceph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uuid=obc6SR-cvkg-MbWh-cqC5-augU-hs4r-ha715Y,ceph.osd_fsid=106b105a-a7a2-49aa-901e-b2c8442f1c1a,ceph.osd_id=1,ceph.type=journal,ceph.vdo=0";"/dev/journals/journal1";"journal1";"journals";"obc6SR-cvkg-MbWh-cqC5-augU-hs4r-ha715Y
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.cluster_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv1,ceph.data_uuid=2svevT-iOWB-NAlz-MjH5-X8zk-jbYj-Wl67HD,ceph.encrypted=0,ceph.journal_device=/dev/sdc1,ceph.journal_uuid=2b09dbb7-b12b-402f-9971-04855f0dd1a6,ceph.osd_fsid=41bald2c-2a5a-47b3-a0f9-fc7e6e274348,ceph.osd_id=0,ceph.type=data,ceph.vdo=0";"/dev/test_group/data-lv1";"data-lv1";"test_group";"2svevT-iOWB-NAlz-MjH5-X8zk-jbYj-Wl67HD
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.cluster_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv2,ceph.data_uuid=8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b,ceph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uuid=obc6SR-cvkg-MbWh-cqC5-augU-hs4r-ha715Y,ceph.osd_fsid=106b105a-a7a2-49aa-901e-b2c8442f1c1a,ceph.osd_id=1,ceph.type=data,ceph.vdo=0";"/dev/test_group/data-lv2";"data-lv2";"test_group";"8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b
[2018-07-16 22:04:06,394][ceph_volume.process][INFO ] Running command: /usr/sbin/blkid -t PARTUUID="2b09dbb7-b12b-402f-9971-04855f0dd1a6" -o device
[2018-07-16 22:04:06,829][ceph_volume.process][INFO ] stdout /dev/sdc1
[2018-07-16 22:04:06,829][ceph_volume.process][INFO ] Running command: /usr/sbin/lvs --noheadings --readonly --separator=";" -o lv_tags,lv_path,lv_name,vg_name,lv_uuid
[2018-07-16 22:04:07,215][ceph_volume.process][INFO ] stdout ";"/dev/VolGroup00/LogVol100";"LogVol00";"VolGroup00";"j6b8IV-KEw3-7bTw-Oqy8-1Ud3-juFC-SJBg12
[2018-07-16 22:04:07,216][ceph_volume.process][INFO ] stdout ";"/dev/VolGroup00/LogVol01";"LogVol
```

```

01"; "VolGroup00"; "IAjIC6-ScnM-tvH6-7BTy-TN31-hd82-bgDSzd
[2018-07-16 22:04:07,216][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.clus
ter_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,
ceph.data_device=/dev/test_group/data-lv2,ceph.data_uid=8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b,ce
ph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uid=obc6SR-cvkg-MbWh-cqC5-
augU-hs4r-ha715Y,ceph.osd_fsid=106b105a-a7a2-49aa-901e-b2c8442f1c1a,ceph.osd_id=1,ceph.type=journa
l,ceph.vdo=0"; "/dev/journals/journal1"; "journal1"; "journals"; "obc6SR-cvkg-MbWh-cqC5-augU-hs4r-ha71
5Y
[2018-07-16 22:04:07,216][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.clus
ter_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,
ceph.data_device=/dev/test_group/data-lv1,ceph.data_uid=2svevT-iOWB-NALz-MjH5-X8zk-jbYj-Wl67HD,ce
ph.encrypted=0,ceph.journal_device=/dev/sdc1,ceph.journal_uid=2b09dbb7-b12b-402f-9971-04855f0dd1a
6,ceph.osd_fsid=41bal2c-2a5a-47b3-a0f9-fc7e6e274348,ceph.osd_id=0,ceph.type=data,ceph.vdo=0"; "/de
v/test_group/data-lv1"; "data-lv1"; "test_group"; "2svevT-iOWB-NALz-MjH5-X8zk-jbYj-Wl67HD
[2018-07-16 22:04:07,216][ceph_volume.process][INFO ] stdout ceph.cephx_lockbox_secret=,ceph.clus
ter_fsid=58fd7180-2887-4f01-9320-d194482712a2,ceph.cluster_name=ceph,ceph.crush_device_class=None,
ceph.data_device=/dev/test_group/data-lv2,ceph.data_uid=8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eChI3b,ce
ph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uid=obc6SR-cvkg-MbWh-cqC5-
augU-hs4r-ha715Y,ceph.osd_fsid=106b105a-a7a2-49aa-901e-b2c8442f1c1a,ceph.osd_id=1,ceph.type=data,c
eph.vdo=0"; "/dev/test_group/data-lv2"; "data-lv2"; "test_group"; "8E8pnM-AsEd-1lnI-P3DW-iLz9-PET5-eCh
I3b
[2018-07-16 22:04:07,217][ceph_volume][ERROR ] exception caught by decorator
Traceback (most recent call last):
  File "/usr/lib/python2.7/site-packages/ceph_volume/decorators.py", line 59, in newfunc
    return f(*a, **kw)
  File "/usr/lib/python2.7/site-packages/ceph_volume/main.py", line 153, in main
    terminal.dispatch(self.mapper, subcommand_args)
  File "/usr/lib/python2.7/site-packages/ceph_volume/terminal.py", line 182, in dispatch
    instance.main()
  File "/usr/lib/python2.7/site-packages/ceph_volume/devices/lvm/main.py", line 38, in main
    terminal.dispatch(self.mapper, self.argv)
  File "/usr/lib/python2.7/site-packages/ceph_volume/terminal.py", line 182, in dispatch
    instance.main()
  File "/usr/lib/python2.7/site-packages/ceph_volume/devices/lvm/listing.py", line 300, in main
    self.list(args)
  File "/usr/lib/python2.7/site-packages/ceph_volume/decorators.py", line 16, in is_root
    return func(*a, **kw)
  File "/usr/lib/python2.7/site-packages/ceph_volume/devices/lvm/listing.py", line 120, in list
    pretty_report(report)
  File "/usr/lib/python2.7/site-packages/ceph_volume/devices/lvm/listing.py", line 53, in pretty_r
eport
    device_metadata_item_template.format(tag_name='devices', value=', '.join(device['devices'])))
KeyError: 'devices'

```

History

#1 - 07/17/2018 12:25 PM - Alfredo Deza

Can you expand on what circumstances you are producing this error?

#2 - 07/17/2018 12:29 PM - Alfredo Deza

On the container side of things, it seems everything is using `--format=json` but this traceback is for pretty reporting. Is it happening for both?

#3 - 07/17/2018 12:42 PM - Sébastien Han

This is happening when running "ceph-volume lvm list".

More info about the layout/setup:

```

[root@osd0 /]# lsblk
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                                  8:0    0   50G  0 disk
sdb                                  8:16   0   50G  0 disk
|--test_group-data--lv1            253:2   0   25G  0 lvm
`--test_group-data--lv2            253:3   0  12.5G  0 lvm
sdc                                  8:32   0   50G  0 disk
|--sdc1                             8:33   0   25G  0 part

```

```

`-sdc2                8:34    0   25G  0 part
  `--journals-journal1 253:4    0   25G  0 lvm
vda                    252:0    0   41G  0 disk
|-vda1                 252:1    0    1M  0 part
|-vda2                 252:2    0    1G  0 part
|-vda3                 252:3    0   39G  0 part
  |--VolGroup00-LogVol100 253:0    0  37.5G  0 lvm  /var/lib/ceph
  `--VolGroup00-LogVol101 253:1    0   1.5G  0 lvm  [SWAP]
[root@osd0 /]# lvs
LV          VG          Attr      LSize   Pool Origin Data%  Meta%  Move Log Cpy%Sync Convert
LogVol100  VolGroup00 -wi-ao---- <37.47g
LogVol101  VolGroup00 -wi-ao---- 1.50g
journal1   journals    -wi-a----- <25.00g
data-lv1   test_group -wi-a----- <25.00g
data-lv2   test_group -wi-a----- 12.50g
[root@osd0 /]# vgs
VG          #PV #LV #SN Attr   VSize   VFree
VolGroup00  1  2  0 wz--n- <38.97g  0
journals    1  1  0 wz--n- <25.00g  0
test_group  1  2  0 wz--n- <50.00g 12.50g
[root@osd0 /]# pvs
PV          VG          Fmt Attr PSize   PFree
/dev/sdb    test_group lvm2 a-- <50.00g 12.50g
/dev/sdc2   journals    lvm2 a-- <25.00g  0
/dev/vda3   VolGroup00 lvm2 a-- <38.97g  0

```

#4 - 07/17/2018 12:51 PM - Sébastien Han

Note that when using `--format=json` the output works:

```

[root@osd0 /]# ceph-volume lvm list --format=json
{
  "0": [
    {
      "devices": [
        "/dev/sdb"
      ],
      "lv_name": "data-lv1",
      "lv_path": "/dev/test_group/data-lv1",
      "lv_tags": "ceph.cephx_lockbox_secret=,ceph.cluster_fsid=05d71da5-97fc-47ea-baa4-8b3f2cfabc78,ceph.cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv1,ceph.data_uuid=19Ld1t-6Y07-1j30-WTEy-fSCi-gPAC-BWQo6m,ceph.encrypted=0,ceph.journal_device=/dev/sdc1,ceph.journal_uuid=b8df36ef-1a49-41a3-ad1d-9e2d7cf3f87c,ceph.osd_fsid=1216d5e8-ac1f-45d1-af2a-eff43d375687,ceph.osd_id=0,ceph.type=data,ceph.vdo=0",
      "lv_uuid": "19Ld1t-6Y07-1j30-WTEy-fSCi-gPAC-BWQo6m",
      "name": "data-lv1",
      "path": "/dev/test_group/data-lv1",
      "tags": {
        "ceph.cephx_lockbox_secret": ""
      }
    }
  ]
}

```

```

    "ceph.cluster_fsid": "05d71da5-97fc-47ea-baa4-8b3f2cfabc78",
    "ceph.cluster_name": "ceph",
    "ceph.crush_device_class": "None",
    "ceph.data_device": "/dev/test_group/data-lv1",
    "ceph.data_uuid": "19Ldlt-6Y07-lj30-WTEy-fSCi-gPAC-BWQo6m",
    "ceph.encrypted": "0",
    "ceph.journal_device": "/dev/sdc1",
    "ceph.journal_uuid": "b8df36ef-1a49-41a3-ad1d-9e2d7cf3f87c",
    "ceph.osd_fsid": "1216d5e8-ac1f-45d1-af2a-eff43d375687",
    "ceph.osd_id": "0",
    "ceph.type": "data",
    "ceph.vdo": "0"
  },
  "type": "data",
  "vg_name": "test_group"
},
{
  "path": "/dev/sdc1",
  "tags": {
    "PARTUUID": "b8df36ef-1a49-41a3-ad1d-9e2d7cf3f87c"
  },
  "type": "journal"
}
],
"1": [
  [9/1613]
  {
    "devices": [
      "/dev/sdc2"
    ],
    "lv_name": "journal1",
    "lv_path": "/dev/journals/journal1",
    "lv_tags": ".cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv2,ceph.data_uuid=c0VdnC-dU5I-sPfV-UbC0-o
    cjh-VG7Z-FjTIIQ,ceph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uuid=yitj0u-VefX-fYxR-nAYa-Ddmy-QGLs-S6L7CO,ceph.osd_fsid=ed87126c-718d-4ab1-9350-4c1fc4b46b96,ceph.osd_id=1,ceph.type=journal,ceph.vdo=0",
    "lv_uuid": "yitj0u-VefX-fYxR-nAYa-Ddmy-QGLs-S6L7CO",
    "name": "journal1",
    "path": "/dev/journals/journal1",
    "tags": {
      "ceph.cephx_lockbox_secret": "",
      "ceph.cluster_fsid": "05d71da5-97fc-47ea-baa4-8b3f2cfabc78",
      "ceph.cluster_name": "ceph",
      "ceph.crush_device_class": "None",
      "ceph.data_device": "/dev/test_group/data-lv2",
      "ceph.data_uuid": "c0VdnC-dU5I-sPfV-UbC0-ocjh-VG7Z-FjTIIQ",
      "ceph.encrypted": "0",
      "ceph.journal_device": "/dev/journals/journal1",
      "ceph.journal_uuid": "yitj0u-VefX-fYxR-nAYa-Ddmy-QGLs-S6L7CO",
      "ceph.osd_fsid": "ed87126c-718d-4ab1-9350-4c1fc4b46b96",
      "ceph.osd_id": "1",
      "ceph.type": "journal",
      "ceph.vdo": "0"
    },
    "type": "journal",
    "vg_name": "journals"
  },
  {
    "devices": [
      "/dev/sdb"
    ],
    "lv_name": "data-lv2",
    "lv_path": "/dev/test_group/data-lv2",
    "lv_tags": ".cluster_name=ceph,ceph.crush_device_class=None,ceph.data_device=/dev/test_group/data-lv2,ceph.data_uuid=c0VdnC-dU5I-sPfV-UbC0-o
    cjh-VG7Z-FjTIIQ,ceph.encrypted=0,ceph.journal_device=/dev/journals/journal1,ceph.journal_uuid=yitj0u-VefX-fYxR-nAYa-Ddmy-QGLs-S6L7CO,ceph.osd_fsid=ed87126c-718d-4ab1-9350-4c1fc4b46b96,ceph.osd_id=1,ceph.type=data,ceph.vdo=0",
    "lv_uuid": "c0VdnC-dU5I-sPfV-UbC0-ocjh-VG7Z-FjTIIQ",
    "name": "data-lv2",
    "path": "/dev/test_group/data-lv2",

```

```

    "tags": {
      "ceph.cephx_lockbox_secret": "",
      "ceph.cluster_fsid": "05d71da5-97fc-47ea-baa4-8b3f2cfabc78",
      "ceph.cluster_name": "ceph",
      "ceph.crush_device_class": "None",
      "ceph.data_device": "/dev/test_group/data-lv2",
      "ceph.data_uuid": "c0VdnC-dU5I-sPfV-UbC0-ocjh-VG7Z-FjTI1Q",
      "ceph.encrypted": "0",
      "ceph.journal_device": "/dev/journals/journal1",
      "ceph.journal_uuid": "yitj0u-VefX-fYxR-nAYa-Ddmy-QGLs-S6L7CO",
      "ceph.osd_fsid": "ed87126c-718d-4ab1-9350-4c1fc4b46b96",
      "ceph.osd_id": "1",
      "ceph.type": "data",
      "ceph.vdo": "0"
    },
    "type": "data",
    "vg_name": "test_group"
  }
]
}

```

#5 - 07/17/2018 01:06 PM - Alfredo Deza

- Status changed from New to 12
- Assignee set to Alfredo Deza
- Priority changed from Normal to Immediate

The problem here is that GPT partitions don't have devices, and the code assumes 'devices' is always going to be there. The fix is:

```

diff --git a/src/ceph-volume/ceph_volume/devices/lvm/listing.py b/src/ceph-volume/ceph_volume/devices/lvm/listing.py
index 6bc84a1686..40ea0c847b 100644
--- a/src/ceph-volume/ceph_volume/devices/lvm/listing.py
+++ b/src/ceph-volume/ceph_volume/devices/lvm/listing.py
@@ -49,8 +49,11 @@ def pretty_report(report):
     value=value
     )
   )
-   output.append(
-     device_metadata_item_template.format(tag_name='devices', value=', '.join(device['devices']))
+   if not device.get('devices'):
+     continue
+   else:
+     output.append(
+       device_metadata_item_template.format(tag_name='devices', value=', '.join(device['devices']
)))

print(' '.join(output))

```

#6 - 07/19/2018 05:13 PM - Alfredo Deza

- Status changed from 12 to Resolved

Master PR <https://github.com/ceph/ceph/pull/23129>