

ceph-volume - Bug #38548

ceph-volume prints errors to stdout with --format json

03/01/2019 04:44 PM - Jan Fajerski

Status: Resolved	% Done: 0%
Priority: Normal	
Assignee:	
Category:	
Target version:	
Source:	Affected Versions:
Tags:	ceph-qa-suite:
Backport: nautilus, mimic, luminous	Pull request ID: 27675
Regression: No	Crash signature (v1):
Severity: 2 - major	Crash signature (v2):
Reviewed:	
Description	
<p>When requesting json output from ceph volume errors (and maybe other messages) are printed to stdout. this results in tools parsing this output to see invalid json.</p> <p>This was observed with the inventory subcommand, but I assume other subcommands show the same behaviour.</p> <p>Example output:</p> <pre>% ceph-volume inventory --format json 2>/dev/null --> Falling back to /tmp/ for logging. Can't use /var/log/ceph/ceph-volume.log --> [Errno 13] Permission denied: '/var/log/ceph/ceph-volume.log' stderr: blkid: error: /dev/mapper/cryptswap: Permission denied stderr: blkid: error: /dev/mapper/cryptroot: Permission denied stderr: blkid: error: /dev/sda: Permission denied stderr: blkid: error: /dev/sda2: Permission denied stderr: blkid: error: /dev/sda3: Permission denied stderr: blkid: error: /dev/sda1: Permission denied [{"path": "/dev/mapper/cryptroot", "sys_api": {"removable": "0", "ro": "0", "vendor": "", "model": "", "rev": "", "sas_address": "", "sas_device_handle": "", "sectors": 0, "size": 494403919360.0, "support_discard": "", "partitions": {}, "rotational": "0", "nr_requests": "128", "scheduler_mode": "", "sectorsize": "512", "human_readable_size": "460.45 GB", "path": "/dev/mapper/cryptroot", "locked": 1}, "available": false, "rejected_reasons": ["locked"], "lvs": []}, {"path": "/dev/mapper/cryptswap", "sys_api": {"removable": "0", "ro": "0", "vendor": "", "model": "", "rev": "", "sas_address": "", "sas_device_handle": "", "sectors": 0, "size": 17177058816.0, "support_discard": "", "partitions": {}, "rotational": "0", "nr_requests": "128", "scheduler_mode": "", "sectorsize": "512", "human_readable_size": "16.00 GB", "path": "/dev/mapper/cryptswap", "locked": 1}, "available": false, "rejected_reasons": ["locked"], "lvs": []}, {"path": "/dev/sda", "sys_api": {"removable": "0", "ro": "0", "vendor": "ATA", "model": "SK hynix SC311 S", "rev": "0P10", "sas_address": "", "sas_device_handle": "", "sectors": 0, "size": 512110190592.0, "support_discard": "", "partitions": {"sda2": {"start": "1024000", "sectors": "965636751", "sectorsize": 512, "size": "460.45 GB", "holders": ["dm-0"]}, "sda3": {"start": "966662144", "sectors": "33553039", "sectorsize": 512, "size": "16.00 GB", "holders": ["dm-1"]}, "sda1": {"start": "2048", "sectors": "1021952", "sectorsize": 512, "size": "499.00 MB", "holders": []}}, "rotational": "0", "nr_requests": "64", "scheduler_mode": "mq-deadline", "sectorsize": "512", "human_readable_size": "476.94 GB", "path": "/dev/sda", "locked": 1}, "available": false, "rejected_reasons": ["locked"], "lvs": []}]</pre>	
Related issues:	
Copied to ceph-volume - Backport #41137: nautilus: ceph-volume prints errors ...	Resolved
Copied to ceph-volume - Backport #41138: mimic: ceph-volume prints errors to ...	Resolved
Copied to ceph-volume - Backport #41139: luminous: ceph-volume prints errors ...	Resolved
Copied to ceph-volume - Bug #41158: ceph-volume prints log messages to stdout	Resolved 03/01/2019

History

#1 - 03/01/2019 04:45 PM - Jan Fajerski

- Severity changed from 3 - minor to 2 - major

#2 - 03/04/2019 10:31 AM - Jan Fajerski

I believe this can be easily fixed by something like <https://github.com/jan--f/ceph/tree/c-v-console-logging-to-stderr>.

This has a lot of tests failing. Its not hard to fix them but I'm afraid I'm overlooking the reason why everything is currently printed to stdout. Was this just an oversight or is there a something behind it?

#3 - 03/04/2019 10:50 AM - Sebastian Wagner

also relates to https://github.com/ceph/ceph/blob/a277b5c1fee510c3716a0b495370c46eeb33d496/src/pybind/mgr/test_orchestrator/module.py#L221

#4 - 04/18/2019 09:43 AM - Jan Fajerski

<https://github.com/ceph/ceph/pull/27675>

#5 - 04/18/2019 09:57 AM - Nathan Cutler

- Status changed from New to Fix Under Review

- Pull request ID set to 27675

#6 - 04/18/2019 10:14 AM - Sebastian Wagner

- Backport set to nautilus

#7 - 08/06/2019 11:39 AM - Jan Fajerski

- Status changed from Fix Under Review to Pending Backport

- Backport changed from nautilus to nautilus, mimic, luminous

#8 - 08/06/2019 01:17 PM - Jan Fajerski

- Copied to Backport #41137: nautilus: ceph-volume prints errors to stdout with --format json added

#9 - 08/06/2019 01:17 PM - Jan Fajerski

- Copied to Backport #41138: mimic: ceph-volume prints errors to stdout with --format json added

#10 - 08/06/2019 01:17 PM - Jan Fajerski

- Copied to Backport #41139: luminous: ceph-volume prints errors to stdout with --format json added

#11 - 08/07/2019 01:42 PM - Guillaume Abrioux

It seems the mentioned backports aren't enough, using:

```
ceph version 14.2.2-298-g0bdfdc6 (0bdfdc6b5433736bd11c321ecfa559f3b30f9187) nautilus (stable)
```

which contains this patch, I'm still seeing this behavior:

```
[root@osd1 /]# ceph-volume simple scan /dev/sda1 --stdout 2>/dev/null
Running command: /usr/sbin/cryptsetup status /dev/sda1
Running command: /bin/mount -v /dev/sda1 /tmp/tmp_NrdoM
stdout: mount: /dev/sda1 mounted on /tmp/tmp_NrdoM.
Running command: /bin/umount -v /tmp/tmp_NrdoM {
"active": "ok",
"ceph_fsuuid": "f3ea8c89-3b32-4abd-8aa9-07d1e6319e3b",
"cluster_name": "ceph",
"data": {
"path": "/dev/sda1",
```

```
"uuid": "de0465d1-b00b-4bd6-b1da-92e8f6cf0aef"
},
"fsid": "de0465d1-b00b-4bd6-b1da-92e8f6cf0aef",
"journal": {
  "path": "/dev/sdc1",
  "uuid": "b8e4707c-c28a-45fb-913f-6680a5f3b2d4"
},
"journal_uuid": "b8e4707c-c28a-45fb-913f-6680a5f3b2d4",
"keyring": "AQDSiUld6XdXGxAAksb27KOA5/byZ9ybu8J9w==",
"magic": "ceph osd volume v026",
"none": "",
"ready": "ready",
"require_osd_release": 14,
"type": "filestore",
"whoami": 10
}
[root@osd1 /]#
```

#12 - 08/07/2019 02:09 PM - Alfredo Deza

This is going to be a bit more involved... this function is missing the stderr default:

```
def write(msg):
    return _Write().raw(msg)
```

Which is what process.run use to spit out "Running command: ..."

Additionally, in process.py there is a 'log_descriptors()' function which allows ceph-volume to log output as it receives it asynchronously. It maps the stdout and stderr in how they come from the command output. It does this because we use different terminal coloring for stderr (yellow) than stdout (blue I think).

From looking at how this is implemented, I can't say what an easy fix would be to change that function

#13 - 08/08/2019 06:10 AM - Jan Fajerski

Right we should probably never log anything to stdout. I didn't consider this on the original patch thinking terminal.write might be used for some legitimate printing of output, but turns out its only used by process.py.

I'll open another tracker ticket to track this properly.

#14 - 08/08/2019 06:12 AM - Jan Fajerski

- Copied to Bug #41158: ceph-volume prints log messages to stdout added

#15 - 08/08/2019 08:50 AM - Jan Fajerski

- Status changed from Pending Backport to Resolved