# CephFS - Bug #39651

## qa: test_kill_mdstable fails unexpectedly

05/09/2019 01:38 PM - Rishabh Dave

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|---|---|---|---|
| **Status:** | In Progress | **% Done:** | 0% |
| **Priority:** | Normal | | |
| **Assignee:** | Rishabh Dave | | |
| **Category:** | | | |
| **Target version:** | v17.0.0 | | |
| **Source:** | Q/A | **ceph-qa-suite:** | |
| **Tags:** | | **Component(FS):** | qa-suite |
| **Backport:** | pacific,octopus,nautilus | **Labels (FS):** | |
| **Regression:** | No | **Pull request ID:** | |
| **Severity:** | 3 - minor | **Crash signature (v1):** | |
| **Reviewed:** | | **Crash signature (v2):** | |
| **Affected Versions:** | | | |

**Description**

I get following traceback while running the test_kill_mdstable:
https://github.com/ceph/ceph/blob/master/qa/tasks/cephfs/test_snapshots.py#L41

```
File "/home/rishabh/repos/ceph/pr-27718/qa/tasks/cephfs/test_snapshots.py", line 76, in test_kill_
mdstable
    self.delete_mds_coredump(rank0['name']);
  File "/home/rishabh/repos/ceph/pr-27718/qa/tasks/cephfs/cephfs_test_case.py", line 268, in delet
e_mds_coredump
    ], stdout=StringIO())
  File "../qa/tasks/vstart_runner.py", line 346, in run
    proc.wait()
  File "../qa/tasks/vstart_runner.py", line 179, in wait
    raise CommandFailedError(self.args, self.exitstatus)
CommandFailedError: Command failed with status 1: ['cd', '|/usr/lib/systemd', Raw('&&'), 'ls', Raw
('|'), 'xargs', 'file']
```

code_dir:"https://github.com/ceph/ceph/blob/master/qa/tasks/cephfs/cephfs_test_case.py#L257" does not contain a path to a directory at all. The value of core_dir is "|/usr/lib/systemd" which is weird because the string (which is supposed to be a path) has a vertical bar at the beginning and, more importantly, because "/usr/lib/systemd" is not a directory. The lines of code following will attempt to use it as the target directory for "cd" command. Following is the traceback obtained from running "test_kill_mdstable"

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**History**

**#1 - 05/13/2019 01:54 PM - Patrick Donnelly**

*- Assignee set to Rishabh Dave*

*- Target version set to v15.0.0*

*- Start date deleted (05/09/2019)*

*- Component(FS) qa-suite added*


**#2 - 06/03/2019 05:20 PM - Patrick Donnelly**

*- Subject changed from test_kill_mdstable fails unexpectedly to qa: test_kill_mdstable fails unexpectedly*

*- Description updated*

*- Source set to Q/A*

**#3 - 11/13/2019 06:08 PM - Rishabh Dave**

Part of the problem is that the pipe character wasn't trimmed from output while extracting the path -

```
$ sysctl -n kernel.core_pattern
|/usr/lib/systemd/systemd-coredump %P %u %g %s %t %c %h %e
```

This is easy to fix; I've raised a PR for that - https://github.com/ceph/ceph/pull/31619.

But next part of the issue is that the assert in following code (it's from qa/tasks/cephfs/cephfs_test_case.py) fails -

```python
    def delete_mds_coredump(self, daemon_id):
        # delete coredump file, otherwise teuthology.internal.coredump will
        # catch it later and treat it as a failure.
        path = self.mds_cluster.mds_daemons[daemon_id].remote.run(args=[
            "sudo", "sysctl", "-n", "kernel.core_pattern"],
            stdout=StringIO()).stdout.getvalue().strip()
        if path[0] == '|':
            path = path[1:]
        core_dir = os.path.dirname(path)

        if core_dir:  # Non-default core_pattern with a directory in it
            # We have seen a core_pattern that looks like it's from teuthology's coredump
            # task, so proceed to clear out the core file
            log.info("Clearing core from directory: {0}".format(core_dir))

            # Verify that we see the expected single coredump
            ls_proc = self.mds_cluster.mds_daemons[daemon_id].remote.run(args=[
                "cd", core_dir, run.Raw('&&'),
                "sudo", "ls", run.Raw('|'), "sudo", "xargs", "file"
            ], stdout=StringIO())
            cores = [l.partition(":")[0]
                        for l in ls_proc.stdout.getvalue().strip().split("\n")
                        if re.match(r'.*ceph-mds.* -i +{0}'.format(daemon_id), l)]

            log.info("Enumerated cores: {0}".format(cores))
            self.assertEqual(len(cores), 1)
```

There's no "ceph-mds" in the ls_proc. I've got no idea about the significance of core file. @Patrick @Zheng any suggestions/hints you can give?

**#4 - 11/13/2019 06:08 PM - Rishabh Dave**

*- Status changed from New to In Progress*


**#5 - 11/14/2019 09:33 AM - Rishabh Dave**

I talked with Zheng. He told me that many tests cannot be executed successfully with vstart cluster and this is one of them.


**#6 - 01/24/2020 11:13 PM - Patrick Donnelly**

*- Target version changed from v15.0.0 to v16.0.0*


**#7 - 01/15/2021 10:48 PM - Patrick Donnelly**

*- Target version changed from v16.0.0 to v17.0.0*

*- Backport set to pacific,octopus,nautilus*