

## rgw - Bug #38744

### rgw: nfs: process asserts on empty path name segment (e.g., s3://myfiles//data/file.pdf)

03/14/2019 05:57 PM - Matt Benjamin

<b>Status:</b>	Resolved	<b>Start date:</b>	03/14/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Source:</b>		<b>Reviewed:</b>	
<b>Tags:</b>		<b>Affected Versions:</b>	
<b>Backport:</b>	luminous mimic nautilus	<b>ceph-qa-suite:</b>	
<b>Regression:</b>	No	<b>Pull request ID:</b>	
<b>Severity:</b>	3 - minor		

#### Description

From Asish Singh:

- Description of problem:

Whenever the psuedo path contains an empty directory "/" (Example : s3://myfiles/new\_data//new.pdf), accessing the files results in nfs-ganesha service aborting with SIGNAL 6.

In s3 namespace "/" is empty directory whereas in FS namespace "/" would be treated as "/" and not as an empty dir.

In 'audit.log' :

```
-----  
type=ANOM_ABEND msg=audit(1552413839.195:40148): auid=4294967295 uid=0 gid=0 ses=4294967295  
subj=system_u:system_r:ganesha_t:s0 pid=7325 comm="ganesha.nfsd" reason="memory violation" sig=6  
-----
```

In 'messages' :

```
-----  
Mar 12 23:42:30 ceph-a1 abrt-hook-ccpp: Process 8654 (ganesha.nfsd) of user 0 killed by SIGABRT - dumping core  
Mar 12 23:42:35 ceph-a1 abrt-hook-ccpp: Failed to create core_backtrace: waitpid failed: No child processes  
Mar 12 23:42:35 ceph-a1 systemd: nfs-ganesha.service: main process exited, code=killed, status=6/ABRT  
Mar 12 23:42:35 ceph-a1 systemd: Unit nfs-ganesha.service entered failed state.  
Mar 12 23:42:35 ceph-a1 systemd: nfs-ganesha.service failed.  
-----
```

- Version-Release number of selected component (if applicable):

```
RHCS 3.2z1  
nfs-ganesha.x86_64-2.7.1-3.el7cp  
nfs-ganesha-rgw.x86_64-2.7.1-3.el7cp
```

- How reproducible:

Always

- Steps to Reproduce:

1. Create an s3 directory without any name and upload a file it it : # s3cmd put /bin/ceph s3://myfiles/new\_data//new.pdf
2. Configure nfs-ganesha and mount the user to access bucket 'myfiles'. # mount -t nfs -o nfsvers=4.1,noauto,soft,async,proto=tcp <IP>:/mnt
3. Try accessing the file under the directory without the name : # ls -l /mnt/myfiles/new\_data//new.pdf

- Actual results:

nfs-ganesha aborts with signal 6.

- Expected results:

nfs-ganesha can error out and should handle it gracefully.

- **Additional info:**

The name convention in s3 namespace is not correct and while using nfs-ganesha, we should make sure that Customer's do not have such directories without any name.

The data isn't correct. However, nfs-ganesha shouldn't abort but should error out handle gracefully.

**Related issues:**

Copied to rgw - Backport #38771: luminous: rgw: nfs: process asserts on empty...	<b>Resolved</b>
Copied to rgw - Backport #38772: mimic: rgw: nfs: process asserts on empty pa...	<b>Resolved</b>
Copied to rgw - Backport #38773: nautilus: rgw: nfs: process asserts on empty...	<b>Resolved</b>

**History****#1 - 03/14/2019 05:58 PM - Matt Benjamin**

- Status changed from *New* to *In Progress*

**#2 - 03/14/2019 06:06 PM - Matt Benjamin**

- Status changed from *In Progress* to *Need Review*

<https://github.com/ceph/ceph/pull/26954>

**#3 - 03/15/2019 02:29 PM - Casey Bodley**

- Status changed from *Need Review* to *Pending Backport*

- Backport set to *luminous mimic nautilus*

**#4 - 03/15/2019 02:31 PM - Nathan Cutler**

- Copied to Backport #38771: *luminous: rgw: nfs: process asserts on empty path name segment (e.g., s3://myfiles//data/file.pdf)* added

**#5 - 03/15/2019 02:31 PM - Nathan Cutler**

- Copied to Backport #38772: *mimic: rgw: nfs: process asserts on empty path name segment (e.g., s3://myfiles//data/file.pdf)* added

**#6 - 03/15/2019 02:31 PM - Nathan Cutler**

- Copied to Backport #38773: *nautilus: rgw: nfs: process asserts on empty path name segment (e.g., s3://myfiles//data/file.pdf)* added

**#7 - 04/10/2019 09:27 PM - Nathan Cutler**

- Status changed from *Pending Backport* to *Resolved*