Ceph - Bug #12782

Straw2 bucket created even when "tunable straw_calc_version 1" is created

08/25/2015 06:09 PM - James P

Status:	Closed	**% Done:**	0%
Priority:	Normal	**Spent time:**	0.00 hour
Assignee:			
Category:			
Target version:			
Source:	other	**Affected Versions:**	v0.94.2
Tags:		**ceph-qa-suite:**	
Backport:		**Pull request ID:**	
Regression:	No	**Crash signature (v1):**	
Severity:	2 - major	**Crash signature (v2):**	
Reviewed:			

Description

- Hammer cluster running on kernel 3.19
- Tunables set to "hammer" via "ceph osd crush tunables hammer"
- Tunables dump:

```
{
"choose_local_tries": 0,
"choose_local_fallback_tries": 0,
"choose_total_tries": 50,
"chooseleaf_descend_once": 1,
"chooseleaf_vary_r": 1,
"straw_calc_version": 1,
"allowed_bucket_algs": 54,
"profile": "hammer",
"optimal_tunables": 0,
"legacy_tunables": 0,
"require_feature_tunables": 1,
"require_feature_tunables2": 1,
"require_feature_tunables3": 1,
"has_v2_rules": 0,
"has_v3_rules": 0,
"has_v4_buckets": 0
}
```

- Create a new bucket via "ceph osd crush add-bucket ssdroot root"
- dump crush map:
---snip---

```
root ssdroot {
id -9       # do not change unnecessarily

  1. weight 0.000
     alg straw2
     hash 0    # rjenkins1
     }
```

---snip---

This prevents client nodes from mapping RBDs with the following error:

"libceph: mon2 172.16.1.173:6789 feature set mismatch, my 2b84a842a42 < server's 102b84a842a42, missing 1000000000000"

History

#1 - 08/25/2015 06:31 PM - James P

Apparently "allowed_bucket_algs" is the one which dictates that buckets should be STRAW2 and not "straw_calc_version".

So this could probably be just a documentation issue. At the very least, an entry that states the minimum kernel version for hammer/optimal tunables which, if I understand correctly, is 4.1 to support STRAW2.

#2 - 09/08/2015 02:44 PM - Sage Weil

- *Status changed from New to Need More Info*

Yeah. Can you piont to where in the docs it is confusing? Thanks!

#3 - 04/12/2017 05:38 PM - Sage Weil

- *Status changed from Need More Info to Closed*