Hi,

I just upgraded from mimic to nautilus(14.2.0) and stumbled upon a strange "feature". I tried to increase pg_num for a pool. There was no errors but also no visible effect:

1. ceph osd pool get foo_pool01 pg_num
   pg_num: 256
2. ceph osd pool set foo_pool01 pg_num 512
   set pool 11 pg_num to 512
3. ceph osd pool get foo_pool01 pg_num
   pg_num: 256

until finally I found that

1. ceph osd require-osd-release nautilus
   solves this problem

Docs are very scarce about "require-osd-release" command. Something like "Complete the upgrade by disallowing pre-Nautilus OSDs and enabling all new Nautilus-only functionality:" which gives no clue to understand why pretty old feature of increasing pg_num doesn't work. Any way I doubt that silently ignoring user commands is a good idea.

So question is: It is intentional behavior or I hit a bug.

mon sets pg_num_target but encodes with mimic features.

Related issues:
- Duplicated by RADOS - Bug #40193: Changing pg_num and other pool settings are...  Duplicate  06/06/2019
- Copied to RADOS - Backport #40322: nautilus: nautilus with requirie_osd_releas... Resolved
#2 - 05/03/2019 09:21 AM - Nathan Cutler
    - Backport set to nautilus

#3 - 06/12/2019 09:14 PM - Neha Ojha
    - Project changed from Ceph to RADOS
    - Status changed from Fix Under Review to Pending Backport

#4 - 06/12/2019 09:15 PM - Josh Durgin
    - Duplicated by Bug #40193: Changing pg_num and other pool settings are ignored added

#5 - 06/13/2019 10:24 AM - Nathan Cutler
    - Copied to Backport #40322: nautilus: nautilus with require_osd_release < nautilus cannot increase pg_num added

#6 - 08/21/2019 09:18 PM - Greg Farnum
    - Status changed from Pending Backport to Resolved