RADOS - Bug #55153

Make the mClock config options related to [res, wgt, lim] modifiable during runtime for 'custom' mclock profile.

03/31/2022 04:02 PM - Sridhar Seshasayee

Status:	Resolved	**% Done:**	0%
Priority:	Normal	**Spent time:**	0.00 hour
Assignee:	Sridhar Seshasayee		
Category:			
Target version:			
Source:		**Affected Versions:**	
Tags:	backport_processed	**ceph-qa-suite:**	
Backport:	quincy	**Component(RADOS):**	OSD
Regression:	No	**Pull request ID:**	46700
Severity:	3 - minor	**Crash signature (v1):**	
Reviewed:		**Crash signature (v2):**	

Description

The individual config parameters related to reservation
weight and limit are not modifiable during runtime when
a built-in profile is active.

But when the 'custom' profile is active, it must be
possible for an user to modify the above parameters using
the "config set" and other commands during runtime.

This is related to the issue reported in the ceph-user
community:

https://lists.ceph.io/hyperkitty/list/ceph-users@ceph.io/thread/KBCSQWMWTQOH3TZ65R4PIXVNRYGNP77D/

This will require changes in the mClockScheduler and may
be in the Ceph config subsystem.

<u>Workaround</u>

Until a fix is available, the following workaround may be used
to override the parameters:

1. Run the injectargs command as shown in the following example
to override the mclock settings.

```
$ ceph tell osd.0 injectargs '--osd_mclock_scheduler_background_recovery_res=10'
```

OR

2. Another alternative command you could use is:

```
$ ceph daemon osd.0 config set osd_mclock_scheduler_background_recovery_res 10
```

3. The above settings are ephemeral and are lost in case the
OSD restarts. To ensure that the above values are retained
after an OSD restarts, run the following additional command,

```
$ ceph config set osd.0 osd_mclock_scheduler_background_recovery_res 10
```

The above steps must be followed for any subsequent change to
the mclock config parameters when using the 'custom' profile.

Related issues:

Copied to RADOS - Backport #56498: quincy: Make the mClock config options rel...	**Resolved**

History

#1 - 04/06/2022 06:16 AM - Sridhar Seshasayee

- Description updated

#2 - 04/06/2022 11:43 AM - Sridhar Seshasayee

- Description updated

#3 - 06/16/2022 05:04 AM - Sridhar Seshasayee

- Status changed from New to Fix Under Review

- Backport set to quincy

- Pull request ID set to 46700

#4 - 07/07/2022 03:44 PM - Yuri Weinstein

https://github.com/ceph/ceph/pull/46700 merged

#5 - 07/08/2022 04:46 AM - Sridhar Seshasayee

- Status changed from Fix Under Review to Pending Backport

#6 - 07/08/2022 04:50 AM - Backport Bot

- Copied to Backport #56498: quincy: Make the mClock config options related to [res, wgt, lim] modifiable during runtime for 'custom' mclock profile. added

#7 - 08/08/2022 04:27 PM - Backport Bot

- Tags set to backport_processed

#8 - 08/09/2022 04:44 PM - Sridhar Seshasayee

- Status changed from Pending Backport to Resolved