

CephFS - Bug #49725

client: crashed in cct->_conf.get_val() in Client::start_tick_thread()

03/11/2021 01:11 AM - Xiubo Li

Status:	Resolved	% Done:	0%
Priority:	Urgent		
Assignee:	Xiubo Li		
Category:			
Target version:	v17.0.0		
Source:	Development	ceph-qa-suite:	fs
Tags:		Component(FS):	libcephfs
Backport:	pacific	Labels (FS):	crash
Regression:	No	Pull request ID:	40028
Severity:	3 - minor	Crash signature (v1):	
Reviewed:		Crash signature (v2):	
Affected Versions:			

Description

The call trace:

```
1 -- Logs begin at Mon 2021-02-08 09:26:45 CST, end at Wed 2021-03-10 16:22:02 CST. --
2 Mar 10 16:22:02 lxbceph1 chronyd[1260]: Source 50.205.244.20 replaced with 2600:3c00::f03c:9
1ff:fe05:b640
3 Mar 10 16:11:56 lxbceph1 systemd[1]: systemd-coredump@7917-219584-0.service: Succeeded.
4 Mar 10 16:11:56 lxbceph1 systemd-coredump[219585]: Process 147255 (ceph_test_libce) of user
0 dumped core.
5
6                                     Stack trace of thread 147716:
7                                     #0 0x000015293132b47a __mempcmp_avx2_movb
e (libc.so.6)
8                                     #1 0x0000152935a3e498 __ZNSt11char_traits
IcE7compareEPKcS2_m (libceph-common.so.2)
9                                     #2 0x0000152935a8befc __ZNKSt17basic_stri
ng_viewIcSt11char_traitsIcEE7compareES2_ (libceph-common.so.2)
10                                    #3 0x0000152935bb478a __ZStltIcSt11char_t
raitsIcEEbSt17basic_string_viewIT_T0_ES5_ (libceph-common.so.2)
11                                    #4 0x0000152935bb2fbd __ZNKSt4lessISt17ba
sic_string_viewIcSt11char_traitsIcEEEEclE RKS3_S6_ (libceph-common.so.2)
12                                    #5 0x0000152935bb2f08 __ZNKSt8_Rb_treeISt
17basic_string_viewIcSt11char_traitsIcEE St4pairIKS3_RK6OptionEST10_Select1stIS9_ESt4lessIS3_
ESaIS9_EE14_M_lower_boundEPKSt13_Rb_tree_nodeIS9_EPKSt18_Rb_tree_node_baseRS5_ (libceph-comm
on.so.2)
13                                    #6 0x0000152935bb0a36 __ZNKSt8_Rb_treeISt
17basic_string_viewIcSt11char_traitsIcEE St4pairIKS3_RK6OptionEST10_Select1stIS9_ESt4lessIS3_
ESaIS9_EE4findERS5_ (libceph-common.so.2)
14                                    #7 0x0000152935badc21 __ZNKSt3mapISt17bas
ic_string_viewIcSt11char_traitsIcEERK6Op tionSt4lessIS3_ESaISt4pairIKS3_S6_EEE4findERSA_ (lib
ceph-common.so.2)
15                                    #8 0x0000152935c3b333 __ZNK11md_config_t1
1find_optionEST17basic_string_viewIcSt11 char_traitsIcEE (libceph-common.so.2)
16                                    #9 0x0000152935c40f56 __ZNK11md_config_t8
_get_valERK12ConfigValuesSt17basic_strin g_viewIcSt11char_traitsIcEEPN5boost9containerl2small
_vectorISt4pairIPK6OptionPKNS7_7variantINS7_5blankEJNSt7__cxx112basic_stringIcS 5_SaIcEEEEmlD
b13entity_addr_t16entity_addrvec_tNSt6chrono8durationIlSt5ratioILl1ELl1EEEEENS_N_I1SO_ILl1ELl1000EEE
ENSB_6size_tE6uuid_dEE EELm4EvvEEPSo (libceph-common.so.2)
17                                    #10 0x0000152935c40e8b __ZNK11md_config_t1
5get_val_genericB5cxx11ERK12ConfigValues St17basic_string_viewIcSt11char_traitsIcEE (libceph-
common.so.2)
18                                    #11 0x0000152933f5dcd8 __ZNK11md_config_t7
```

```

get_valINST6chrono8durationIlSt5ratioILl1ELl1EEEEEEKT_RKl2ConfigValuesSt17basic_string_viewI
cSt11char_traitsIcEE (libcephfs.so.2)
 19 #12 0x0000152933f41dc7 _ZNK4ceph6common11
ConfigProxy7get_valINST6chrono8durationI
lSt5ratioILl1ELl1EEEEEEKT_St17basic_string_viewIcSt1
lchar_traitsIcEE (libcephfs.so.2)
 20 #13 0x0000152933ec30a9 _ZZN6Client17start
_tick_threadEvENKUl vE_clEv (libcephfs.so
.2)
 21 #14 0x0000152933f12afd __invoke_impl<void
, Client::start_tick_thread()::<lambda()
> > (libcephfs.so.2)
 22 #15 0x0000152933f12737 __invoke<Client::s
tart_tick_thread()::<lambda()> > (libcep
hfs.so.2)
 23 #16 0x0000152933f14ec0 _M_invoke<0> (libc
ephfs.so.2)
 24 #17 0x0000152933f14e96 operator() (libcep
hfs.so.2)
 25 #18 0x0000152933f14e7a _M_run (libcephfs.
so.2)
 26 #19 0x0000152931bf0ba3 execute_native_thr
ead_routine (libstdc++.so.6)
 27 #20 0x0000152933bad2de start_thread (libp
thread.so.0)
 28 #21 0x00001529312cd133 __clone (libc.so.6
)
 29
 30 Stack trace of thread 147708:
 31 #0 0x0000152933bb37ca futex_abstimed_wai
t_cancelable (libpthread.so.0)
 32 #1 0x000015293406973c __gthread_cond_tim
edwait (libcephfs.so.2)
 33 #2 0x00001529340c72ca _ZNSt18condition_v
ariable17__wait_until_implINST6chrono8du
rationIlSt5ratioILl1ELl1000000000EEEEEST9cv_statusR
St11unique_lockISt5mutexERKNS1_10time_pointINS1_3_V2l2system_clockET_EE (libceph
fs.so.2)
 34 #3 0x00001529340b650c _ZNSt18condition_v
ariable10wait_untilIN4ceph17coarse_mono_
clockENSt6chrono8durationImSt5ratioILl1ELl1000000000
EEEEEST9cv_statusRSt11unique_lockISt5mutexERKNS3_10time_pointIT_T0_EE (libcephf
s.so.2)
 35 #4 0x000015293409f895 _ZN4ceph5timerINS_
17coarse_mono_clockEE12timer_threadEv (l
ibcephfs.so.2)
 36 #5 0x00001529340b66dc _ZSt13__invoke_imp
lIvMN4ceph5timerINS0_17coarse_mono_clock
T2_ (libcephfs.so.2)
 37 #6 0x000015293409f93b _ZSt8__invokeIMN4c
eph5timerINS0_17coarse_mono_clockEEEEFvvE
JPS3_EENSt15__invoke_resultIT_JDpT0_EE4typeEOS8_DpOS
9_ (libcephfs.so.2)
 38 #7 0x000015293411574f _ZNSt6thread8_Invo
kerISt5tupleIJMN4ceph5timerINS2_17coarse
_mono_clockEEEEFvvEPS5_EEE9_M_invokeIJLm0ELm1EEEEdTcl
8__invokespcl10_S_declvalIXT_EEEEESt12_Index_tupleIJXspT_EEE (libcephfs.so.2)
 39 #8 0x000015293411286e _ZNSt6thread8_Invo
kerISt5tupleIJMN4ceph5timerINS2_17coarse
_mono_clockEEEEFvvEPS5_EEEc1Ev (libcephfs.so.2)
 40 #9 0x000015293410e184 _ZNSt6thread11_Sta
te_implINS_8_InvokerISt5tupleIJMN4ceph5t
imerINS3_17coarse_mono_clockEEEEFvvEPS6_EEEEE6_M_runE
v (libcephfs.so.2)
 41 #10 0x0000152931bf0ba3 execute_native_thr
ead_routine (libstdc++.so.6)
 42 #11 0x0000152933bad2de start_thread (libp
thread.so.0)
 43 #12 0x00001529312cd133 __clone (libc.so.6
)
 44

```

This could be easier to reproduce with my inode lock patches. And have tried it without the inode lock patches it still could happen after running it hours.

Maybe there should be one dedicate lock in Config classh to protect the `schema` map. In the Client class we can protect all the `cct->_conf` everywhere by `Client_lock`, but the `cct->_conf` still could be access or change out side the Client, which is not under

Client class control/scope.

I will try to fix it.

Related issues:

Copied to CephFS - Backport #49854: pacific: client: crashed in cct->_conf.ge...

Resolved

History

#1 - 03/11/2021 02:23 AM - Xiubo Li

- Priority changed from Normal to Urgent

#2 - 03/11/2021 10:43 AM - Xiubo Li

- Pull request ID set to 40028

#3 - 03/11/2021 02:14 PM - Xiubo Li

- Status changed from New to Fix Under Review

- Assignee set to Xiubo Li

#4 - 03/12/2021 12:46 AM - Xiubo Li

With the upstream code, I can reproduce it around 10 time by running 8 hours at night.

#5 - 03/17/2021 03:25 AM - Patrick Donnelly

- Status changed from Fix Under Review to Pending Backport

- Target version set to v17.0.0

- Source set to Development

- Backport set to pacific

#6 - 03/17/2021 03:30 AM - Backport Bot

- Copied to Backport #49854: pacific: client: crashed in cct->_conf.get_val() in Client::start_tick_thread() added

#7 - 04/02/2021 07:06 AM - Loïc Dachary

- Status changed from Pending Backport to Resolved

While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved" or "Rejected".