



index : kernel/git/stable/linux.git

master



switch

Linux kernel stable tree

Stable Group

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search

author Baokun Li <libaokun1@huawei.com> 2023-01-07 11:21:26 +0800
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2023-03-22 13:33:54 +0100
commit 70e66bdeae4d0f7c8e87762f425b68aedd5e8955 (patch)
tree 8f5c2e5b654d1c7d36bfd4f018b0151ec6bead83
parent b4afe4629ec8f7d740617866e4286717a1c9c4c3 (diff)
download linux-70e66bdeae4d0f7c8e87762f425b68aedd5e8955.tar.gz

diff options

context:

3



space:

include



mode:

unified



ext4: update s_journal_inum if it changes after journal replay

[Upstream commit 3039d8b8692408438a618fac2776b629852663c3]

When mounting a crafted ext4 image, s_journal_inum may change after journal replay, which is obviously unreasonable because we have successfully loaded and replayed the journal through the old s_journal_inum. And the new s_journal_inum bypasses some of the checks in ext4_get_journal(), which may trigger a null pointer dereference problem. So if s_journal_inum changes after the journal replay, we ignore the change, and rewrite the current journal_inum to the superblock.

Link: https://bugzilla.kernel.org/show_bug.cgi?id=216541

Reported-by: Luís Henriques <lhenriques@suse.de>

Signed-off-by: Baokun Li <libaokun1@huawei.com>

Reviewed-by: Jan Kara <jack@suse.cz>

Link: <https://lore.kernel.org/r/20230107032126.4165860-3-libaokun1@huawei.com>

Signed-off-by: Theodore Ts'o <tytso@mit.edu>

Signed-off-by: Sasha Levin <sashal@kernel.org>

Diffstat

-rw-r--r-- fs/ext4/super.c 7

1 files changed, 5 insertions, 2 deletions

```
diff --git a/fs/ext4/super.c b/fs/ext4/super.c
index 80116009995864..2528e8216c3342 100644
--- a/fs/ext4/super.c
+++ b/fs/ext4/super.c
@@ -5967,8 +5967,11 @@ static int ext4_load_journal(struct super_block *sb,
     if (!really_read_only && journal_devnum &&
        journal_devnum != le32_to_cpu(es->s_journal_dev)) {
        es->s_journal_dev = cpu_to_le32(journal_devnum);
-
-        /* Make sure we flush the recovery flag to disk. */
+        ext4_commit_super(sb);
+    }
+    if (!really_read_only && journal_inum &&
        journal_inum != le32_to_cpu(es->s_journal_inum)) {
        es->s_journal_inum = cpu_to_le32(journal_inum);
        ext4_commit_super(sb);
    }
}
```