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committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2022-11-16 09:58:27 +0100
commit [c9fe4719c662e0af17eea723cf345e37719fd3c9](#) (patch)
tree [eb8d22ca28d5b31956a3537a5d78c79a3c43d135](#)
parent [f96fd36936310cef0ea1370a9ae30e6746e6f62](#) (diff)
download [linux-c9fe4719c662e0af17eea723cf345e37719fd3c9.tar.gz](#)

diff options

context: 3 ▾
space: include ▾
mode: unified ▾

btrfs: fix match incorrectly in dev_args_match_device

commit 0fc... upstream.

syzkaller found a failed assertion:

assertion failed: (args->devid != (u64)-1) || args->missing, in fs/btrfs/volumes.c:6921

This can be triggered when we set devid to (u64)-1 by ioctl. In this case, the match of devid will be skipped and the match of device may succeed incorrectly.

Patch 562d7b1512f7 introduced this function which is used to match device. This function contains two matching scenarios, we can distinguish them by checking the value of args->missing rather than check whether args->devid and args->uuid is default value.

Reported-by: syzbot+031687116258450f9853@syzkaller.appspotmail.com
Fixes: 562d7b1512f7 ("btrfs: handle device lookup with btrfs_dev_lookup_args")
CC: stable@vger.kernel.org # 5.16+
Reviewed-by: Nikolay Borisov <nborisov@suse.com>
Signed-off-by: Liu Shixin <liushixin2@huawei.com>
Signed-off-by: David Sterba <dsterba@suse.com>
Signed-off-by: Greg Kroah-Hartman <gregkh@linuxfoundation.org>

Diffstat

-rw-r--r-- fs/btrfs/volumes.c 16

1 files changed, 8 insertions, 8 deletions

```
diff --git a/fs/btrfs/volumes.c b/fs/btrfs/volumes.c
index 0f22d91e239273..b8d5d341b5810d 100644
--- a/fs/btrfs/volumes.c
+++ b/fs/btrfs/volumes.c
@@ -6841,18 +6841,18 @@ static bool dev_args_match_fs_devices(const struct btrfs_dev_lookup_args *args,
 static bool dev_args_match_device(const struct btrfs_dev_lookup_args *args,
                                 const struct btrfs_device *device)
{
-    ASSERT((args->devid != (u64)-1) || args->missing);
+    if (args->missing) {
+        if (test_bit(BTRFS_DEV_STATE_IN_FS_METADATA, &device->dev_state) &&
+            !device->bdev)
+            return true;
+    }
+    return false;
}

-    if ((args->devid != (u64)-1) && device->devid != args->devid)
+    if (device->devid != args->devid)
```

```
    return false;
if (args->uuid && memcmp(device->uuid, args->uuid, BTRFS_UUID_SIZE) != 0)
    return false;
-
- if (!args->missing)
-     return true;
- if (test_bit(BTRFS_DEV_STATE_IN_FS_METADATA, &device->dev_state) &&
-     !device->bdev)
-     return true;
-
return false;
+
return true;
}

/*

```

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