```
Messages in this thread
```

First message in thread
Jason Yan
Christoph Hellwig
Jason Yan
Sedat Dilek
Sedat Dilek
Sedat Dilek

Patch in this message

Get diff 1

```
From Jason Yan <>
Subject [PATCH v4] block: Fix use-after-free in blkdev_get()
```

Date Mon, 8 Jun 2020 10:05:57 +0800

In blkdev_get() we call _blkdev_get() to do some internal jobs and if there is some errors in _blkdev_get(), the bdput() is called which means we have released the refcount of the bdev (actually the refcount of the bdev inode). This means we cannot access bdev after that point. But acctually bdev is still accessed in blkdev_get() after calling blkdev_get(). This results in use-after-free if the refcount is the last one we released in _blkdev_get(). Let's take a look at the following scenerio:

```
bdev_get_gendisk
failed because of unhashed
 bd_acquire
bd_forget
```

Fix this by delaying bdput() to the end of blkdev_get() which means we have finished accessing bdev.

Cc: Christoph Hellwig <hch@lst.de>
Cc: Jens Axboe <axboe@kernel.dk>
Cc: Ming Lei <ming.lei@redhat.com>

Last update: 2020-06-08 03:38 [W:0.016 / U:0.452 seconds] ©2003-2020 Jasper Spaans|hosted at Digital Ocean and TransIP|Read the blog|Advertise on this site