

Dangling Dentry of Directory Cannot Be Removed - *ibdircheck* error -22

Solution ID: 86

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DETAILS:

Due to a failure and restitch on Ibrix 3.1, some files and directories are set with the incorrect mode (**0x6 shadow**) and cannot be deleted. Command "*ibdircheck*" results in:

Unexpected error -22

- The files and/or directories look like dangles with "???" listed for meta data on all segment servers except the segment owner

The files and directories can be removed from the segment owner (as they will be visible on the owner). However, if there are files with this problem located in a directory with this problem ("???" listed for meta data) that is owned by different (non-owner) segment servers, you may not be able to resolve the issue.

It may be possible to traverse the bad directory on segments that don't own it to get to files that are owned by that segment server.

To verify this is the problem, use *debug_ipfs1* and stat the inode for the directory or file. If the *ibrmode* is "**0x6**", then this is the problem. This mode can be changed with *debug_ipfs1* but only while offline.

To verify this issue exists:

- *get_seg* <filename> from segment owner and note inode and segment
- Map segment to device.
- On the segment owner run: *debug_ipfs1 /dev/ivgx/ilvx -c*
- *stat* <inode> (**must use <>**)

If *ibrmode* is "**0x6**" this is the problem.

Files can be removed from the segment owner. Engineering may enhance *ibdircheck* to resolve this problem.