NAME

thin_check - validates thin provisioning metadata on a device or file

SYNOPSIS

thin_check [*options*] {device|file}

DESCRIPTION

thin_check checks thin provisioning metadata created by the device-mapper thin provisioning target on a device or file.

The tool cannot be run on live metadata.

OPTIONS

-q, --quiet

Suppress output messages, return only exit code.

-h, --help

Print help and exit.

-V, --version

Output version information and exit.

--super-block-only

Only check the superblock.

--skip-mappings

Skip checking of the block mappings which make up the bulk of the metadata.

--ignore-non-fatal-errors

Will only return a non-zero exit code if it finds a fatal error.

```
An example of a nonfatal error is an incorrect data block reference count
causing a block to be considered allocated when it in fact isn't.  Ignoring
errors for a long time is not advised, you really should be using
thin_repair to fix them.
```

--clear-needs-check-flag

Clears the 'needs_check' flag in the superblock.

```
The kernel may set a flag to force the pool to be checked before it's next
activated.  Set this switch to clear the flag if the check is successful.
If the metadata check failed, the flag is not cleared and a thin_repair run
is needed to fix any issues. After thin_repair succeeded, you may run
thin_check again.
```

--override-mapping-root <block>

Specify a mapping root to use.

```
Don't use this.  This overrides what's specified in the superblock.  Only
use this if you really understand the metadata format and are trying to
recover damaged metadata.
```

EXAMPLE

Analyses thin provisioning metadata on logical volume /dev/vg/metadata:

```
$ thin_check /dev/vg/metadata
```

The device must not be actively used by the target when running.

DIAGNOSTICS

thin_check returns an exit code of 0 for success or 1 for error.

SEE ALSO

    thin_dump(8), **thin_repair**(8), **thin_restore**(8), **thin_rmap**(8), **thin_metadata_size**(8)

AUTHOR

    Joe Thornber <ejt@redhat.com>, Heinz Mauelshagen <heinzm@redhat.com>