CEPH-BLUESTORE-TOOL – BLUESTORE ADMINISTRATIVE TOOL

SYNOPSIS

ceph-bluestore-tool *command* [–dev *device* ...] [–path *osd path*] [–out-dir *dir*] [–log-file | -l *filename*] [–deep]
ceph-bluestore-tool fsck|repair –path *osd path* [–deep]
ceph-bluestore-tool show-label –dev *device* ...
ceph-bluestore-tool prime-osd-dir –dev *device* –path *osd path*
ceph-bluestore-tool bluefs-export –path *osd path* –out-dir *dir*

DESCRIPTION

ceph-bluestore-tool is a utility to perform low-level administrative operations on a BlueStore instance.

COMMANDS

help
: show help

fsck
: run consistency check on BlueStore metadata. If *–deep* is specified, also read all object data and verify checksums.

repair
: Run a consistency check *and* repair any errors we can.

bluefs-export
: Export the contents of BlueFS (i.e., rocksdb files) to an output directory.

bluefs-bdev-sizes `--path *osd path*`
: Print the device sizes, as understood by BlueFS, to stdout.

bluefs-bdev-expand `--path *osd path*`
: Instruct BlueFS to check the size of its block devices and, if they have expanded, make use of the additional space.

show-label `--dev *device* [...]`
: Show device label(s).

OPTIONS

--dev `*device*`
: Add *device* to the list of devices to consider

--path `*osd path*`
: Specify an osd path. In most cases, the device list is inferred from the symlinks present in *osd path*. This is usually simpler than explicitly specifying the device(s) with –dev.

--out-dir `*dir*`
: Output directory for bluefs-export

-l, **--log-file** `*log file*`
: file to log to

--log-level `*num*`
: debug log level. Default is 30 (extremely verbose), 20 is very verbose, 10 is verbose, and 1 is not very verbose.

--deep
: deep scrub/repair (read and validate object data, not just metadata)

DEVICE LABELS

Every BlueStore block device has a single block label at the beginning of the device. You can dump the contents of the label with:

```
ceph-bluestore-tool show-label --dev *device*
```

The main device will have a lot of metadata, including information that used to be stored in small files in the OSD data directory. The auxilliary devices (db and wal) will only have the minimum required fields (OSD UUID, size, device type, birth time).

OSD DIRECTORY PRIMING

You can generate the content for an OSD data directory that can start up a BlueStore OSD with the *prime-osd-dir* command:

```
ceph-bluestore-tool prime-osd-dir --dev *main device* --path /var/lib/ceph/osd/ceph-*id*
```

AVAILABILITY

ceph-bluestore-tool is part of Ceph, a massively scalable, open-source, distributed storage system. Please refer to the Ceph documentation at http://ceph.com/docs for more information.

SEE ALSO

ceph-osd(8)