

RBD INCREMENTAL BACKUP

This is a simple streaming file format for representing a diff between two snapshots (or a snapshot and the head) of an RBD image.

HEADER

“rbd diff v1n”

METADATA RECORDS

Every record has a one byte “tag” that identifies the record type, followed by some other data.

Metadata records come in the first part of the image. Order is not important, as long as all the metadata records come before the data records.

FROM SNAP

u8: ‘f’ le32: snap name length snap name

TO SNAP

u8: ‘t’ le32: snap name length snap name

SIZE

u8: ‘s’ u64: (ending) image size

DATA RECORDS

These records come in the second part of the sequence.

UPDATED DATA

u8: ‘w’ le64: offset le64: length length bytes of actual data

ZERO DATA

u8: ‘z’ le64: offset le64: length

FINAL RECORD

END

u8: ‘e’