not consume any storage space when created, but grow in size as the objects that they contain change. RBD images support incremental snapshots.

Important

Use the `fsfreeze` command to suspend access to a file system before taking a snapshot. The `fsfreeze -freeze` command stops access to the file system and creates a stable image on disk. Do not take a file system snapshot when the file system is not frozen because it will corrupt the snapshot's file system. After taking the snapshot, use `fsfreeze --unfreeze` command to resume file system operations and access.

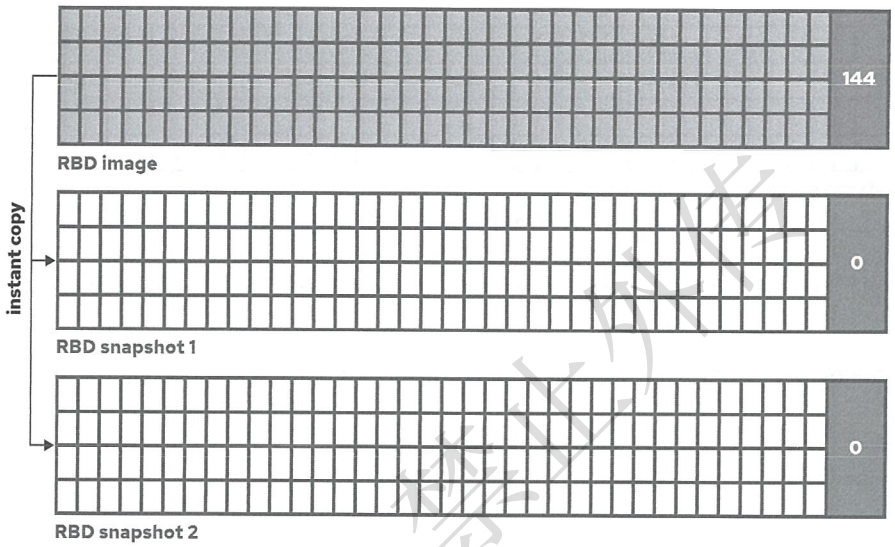

Figure 6.4: RBD snapshots creation

The snapshot COW procedure operates at the *object* level, regardless of the size of the write I/O request made to the RBD image. If you write a single byte to an RBD image that has a snapshot, then Ceph copies the entire affected object from the RBD image into the snapshot area.