

RBD REPLAY

RBD Replay is a set of tools for capturing and replaying Rados Block Device (RBD) workloads. To capture an RBD workload, `lttng-tools` must be installed on the client, and `librbd` on the client must be the v0.87 (Giant) release or later. To replay an RBD workload, `librbd` on the client must be the Giant release or later.

Capture and replay takes three steps:

1. Capture the trace. Make sure to capture `pthread_id` context:

```
mkdir -p traces
lttng create -o traces librbd
lttng enable-event -u 'librbd:*'
lttng add-context -u -t pthread_id
lttng start
# run RBD workload here
lttng stop
```

2. Process the trace with `rbd-replay-prep`:

```
rbd-replay-prep traces/ust/uid/*/.* replay.bin
```

3. Replay the trace with `rbd-replay`. Use read-only until you know it's doing what you want:

```
rbd-replay --read-only replay.bin
```

Important: `rbd-replay` will destroy data by default. Do not use against an image you wish to keep, unless you use the `--read-only` option.

The replayed workload does not have to be against the same RBD image or even the same cluster as the captured workload. To account for differences, you may need to use the `--pool` and `--map-image` options of `rbd-replay`.