RedisTimeSeries 1.6 release notes

Requirements

RedisTimeSeries v1.6.10 requires:

- Minimum Redis compatibility version (database): 6.0.16
- Minimum Redis Enterprise Software version (cluster): 6.2.8

v1.6.10 (May 2022)

This is a maintenance release for RedisTimeSeries 1.6.

Update urgency: MODERATE: Program an upgrade of the server, but it’s not urgent.

Details:

- Bug fixes:
  - #1074 RANGE, REVRANGE, MRANGE, and MREVRANGE: Possibly incorrect result when using ALIGN and aggregating a bucket with a timestamp close to 0
  - #1094 LibMR: Potential memory leak; memory release delay
  - #1127 Memory leak on RANGE and REVRANGE when argument parsing fails
  - #1096 RANGE, REVRANGE, MRANGE, and MREVRANGE: Using FILTER_BY_TS without specifying timestamps now returns an error as expected

v1.6.9 (February 2022)

This is a maintenance release for RedisTimeSeries 1.6.

Update urgency: MODERATE: Program an upgrade of the server, but it’s not urgent.

Details:

- Security and privacy:
  - #1061 Internode communications encryption: support passphrases for PEM files
- Bug fixes:
  - #1056 Return an error when a shard is down (in v1.6.8, returned an empty result)

v1.6 GA (v1.6.8) (January 2022)

This is the General Availability release of RedisTimeSeries 1.6.

Highlights

RedisTimeSeries 1.6 adds support for aggregating across multiple time series (multi-key). Before this version, queries such as “the maximum observed value of a set of time series” needed to be calculated client-side. Such queries can now be computed server-side, leveraging the heart of RedisGears (LibMR) for clustered databases.
What’s new in 1.6

- Introduction of GROUPBY and REDUCE in `TS.MRANGE` and `TS.MREVRANGE` to add support for "multi-key aggregation" and support for such aggregations spanning multiple shards, leveraging LibMR. Currently, we support min, max, and sum as reducers and grouping by a label.

- #722, #275 Filter results using `FILTER_BY_TS` by providing a list of timestamps and `FILTER_BY_VALUE` by providing a min and a max value (`TS.RANGE`, `TS.REVRANGE`, `TS.MRANGE`, and `TS.MREVRANGE`).

- #603, #611, #841 Introduction of `TS.DEL` which allows deleting samples in a time series within two timestamps (inclusive).

- #762 Limit the number of returned labels in the response of read commands (`TS.MRANGE`, `TS.MREVRANGE`, and `TS.MGET`) using `SELECTED_LABELS`. This can be a significant performance improvement when returning a large number of series.

- #655, #801 Ability to align the aggregation buckets with the requested start, end, or specific timestamp on aggregation queries using `ALIGN` (`TS.RANGE`, `TS.REVRANGE`, `TS.MRANGE`, and `TS.MREVRANGE`).

- #675 Add keyspace notifications for all CRUD commands. Check out this test for the details.

- #882 Redis on Flash (RoF) support.

Updated: May 16, 2022