RedisTimeSeries 1.6 release notes

Requirements

RedisTimeSeries v1.6.9 requires:

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

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: March 1, 2022