RedisGraph 2.4 release notes

Requirements
RedisGraph v2.4.14 requires:

- Minimum Redis compatibility version (database): 6.0.0
- Minimum Redis Enterprise Software version (cluster): 6.0.8

v2.4.14 (May 2022)
This is a maintenance release for RedisGraph 2.4.
Update urgency: LOW: No need to upgrade unless there are new features you want to use.
Details:

- Bug fixes:
  - #2072, #2081 CRLF sequences embedded in strings no longer trigger a protocol error when being emitted

- Improvements:
  - #2102 New load-time configuration option NODE_CREATION_BUFFER - see documentation (MOD-2348)

Note: For Redis Enterprise users who want to upgrade to this patch, this version requires being on version 6.2.8 or later.

v2.4.13 (December 2021)
This is a maintenance release for RedisGraph 2.4.
Update urgency: HIGH: There is a critical bug that may affect a subset of users. Upgrade!
Details:

- Performance improvements
  - #2040 Use optimal order of traversals

- Bug fixes:
  - #2046 Avoid serialization of duplicate graph keys (high urgency)
  - #2033 Update RediSearch to 2.0.13

v2.4.12 (October 2021)
This is a maintenance release for RedisGraph 2.4.
Update urgency: HIGH: There is a critical bug that may affect a subset of users. Upgrade!
Details:

- Bug fixes:
• #1981 Crash in index scan

v2.4.11 (October 2021)
This is a maintenance release for RedisGraph 2.4.

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

Details:
• Bug fixes:
  • #1931 Fix race condition on calling BGSAVE while flushing matrices
  • #1898 Error when setting a property to an array containing an invalid type
  • #1897 Aliases in WITH . . . ORDER BY must be valid references%

v2.4.10 (September 2021)
This is a maintenance release for RedisGraph 2.4

Update urgency: HIGH: There is a critical bug that may affect a subset of users. Upgrade!

Details:
• Critical bug fixes:
  • #1911 When a query timeout is set and the graph contained indexes, a crash could occur while releasing indexes
  • Bug fixes:
    • #1913 Update thread-local AST for every cloned operation
    • #1915 Validate function references in parameters%

v2.4.7 (July 2021)
This is a maintenance release for RedisGraph 2.4

Update urgency: HIGH: There is a critical bug that may affect a subset of users. Upgrade!

Details:
• Bug fixes:
  • #1746 Avoid invalid memory access after reallocating labels array
  • #1748 Only allocate space for deleted nodes and edges
  • #1749, #1730 Support updating properties with map referenced by parameter or variable
  • #1754 Map should return volatile data
  • #1773 Matrix resize doesn't set both rows and columns atomically
  • #1799 Always instantiate new persistent matrices as sparse%

v2.4.6 (June 2021)
This is a maintenance release for RedisGraph 2.4

Update urgency: Medium

Details:
• Performance improvements:
  • #1702 Optimize matrix synchronization in GRAPH.BULK commands
  • #1716 Reduce lock calls in retrieving matrices for reading
v2.4.4 (15 May 2021)
This is a maintenance release for RedisGraph 2.4.
Update urgency: Medium
Details:
- Minor Enhancements:
  - #1666 Add configuration parameter to limit the memory usage of queries
  - #1639 Add functionality to SET all properties on an entity to a map

Bug fixes:
- #1678 Crash on multiple procedure calls in a single query

v2.4.3 (8 May 2021)
This is a maintenance release for RedisGraph 2.4.
Update urgency: Medium
Details:
- Features:
  - #1657 Support filtering on variable-length edges in traversals
  - #1514 Add support for shortestPath in MATCH clauses
  - #1664 Add support for limiting max queued queries
  - #1653, #1655 Add support for square root (sqrt) function

- Performance improvements:
  - #1641 Use indexes when filters can only be resolved at runtime
  - #1668 Apply path filters after all other filters

- Bug fixes:
  - #1675 Fix crashing when releasing thread pools on server shutdown
v2.4 GA (March 2021)

Headlines:

- This release introduces the Map and Geospatial Point data types.

Details:

- Features:
  - #1514 Add support for Map data type.
  - #1516 Add support for Geospatial Point data type.
  - #1562 Add toJSON function.
  - #1607 Querying full-text indexes can yield the score of each result.
  - #1610 Expose runtime configuration for read query timeouts.

- Performance improvements:
  - #1596 Redisgraph-bulk-loader no longer blocks the server.

- Minor Enhancements
  - #1590 Improve handling of runtime errors.
  - #1580 Enable assertions in debug mode.

- Bugfixes (compared to RC1)
  - #1618 Fix relationship types being omitted in traversals of 3 or more types.

⚠️ **Note:** This is the first GA version of 2.4. The version inside Redis will be 2.4.2 in semantic versioning. Since the version of a module in Redis is numeric, we could not add an GA flag.

**Updated:** May 26, 2022