Redis Test Suite

The normal execution mode of the test suite involves starting and manipulating local redis-server instances, inspecting process state, log files, etc.

The test suite also supports execution against an external server, which is enabled using the --host and --port parameters. When executing against an external server, tests tagged external:skip are skipped.

There are additional runtime options that can further adjust the test suite to match different external server configurations:

Option	Impact
singledb	Only use database 0, don't assume others are supported.
ignore-encoding	Skip all checks for specific encoding.
ignore-digest	Skip key value digest validations.
cluster-mode	Run in strict Redis Cluster compatibility mode.
large-memory	Enables tests that consume more than 100mb

Tags

Tags are applied to tests to classify them according to the subsystem they test, but also to indicate compatibility with different run modes and required capabilities.

Tags can be applied in different context levels:

- start_server context
- tags context that bundles several tests together
- A single test context.

The following compatibility and capability tags are currently used:

Tag	Indicates
external:skip	Not compatible with external servers.
cluster:skip	Not compatible withcluster-mode.
large-memory	Test that requires more than 100mb
tls:skip	Not campatible withtls.
needs:repl	Uses replication and needs to be able to SYNC from server.
needs:debug	Uses the DEBUG command or other debugging focused commands (like OBJECT).
needs:pfdebug	Uses the PFDEBUG command.
needs:config-maxmemory	Uses CONFIG SET to manipulate memory limit, eviction policies, etc.
needs:config-resetstat	Uses config resetstat to reset statistics.
needs:reset	Uses RESET to reset client connections.

needs:save	Uses SAVE to create an RDB file.

When using an external server (--host and --port), filtering using the external:skip tags is done automatically.

When using --cluster-mode , filtering using the cluster:skip tag is done automatically.

When not using --large-memory , filtering using the largemem:skip tag is done automatically.

In addition, it is possible to specify additional configuration. For example, to run tests on a server that does not permit SYNC use:

```
./runtest --host <host> --port <port> --tags -needs:repl
```