

Redis User Manual:
Performance Benchmarking Suite

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User Manual for Redis MBSuite

Important –

- 1 For the benchmarking purpose we used Redis java client known as Jedis.
- 2 Redis is broker based product, so before running any tests ensure that redis-server is installed in your machine.
- 3 Download the redis from " <http://download.redis.io/releases/redis-2.6.16.tar.gz> "
- 4 To install redis extract the file [redis-2.6.16.tar.gz](#) , for that go to terminal and run command

```
tar -zxvf redis-2.6.16.tar.gz
```
- 5 It then creates [redis-2.6.16](#) directory under the path that you specified.
- 6 We provide you a configuration file called as [redis.conf](#) which is available in [es-perftest/setup-info/](#) copy this file into your redis Installation directory.
e.g (If you installed redis in [/root/redis-setup/](#) then copy the [redis.conf](#) which we gave You into [/root/redis-setup/redis-2.6.16/](#)) which overrides
The original file which is already present.
- 7 To run the broker go to redis installation directory (if redis installed in [/root/redis-setup/](#) then go to [/root/redis-setup/redis-2.6.16/src/](#) and type `./redis-server ../redis.conf` to start broker and `Ctrl + c` to stop broker)
- 8 Run the broker in separate terminal and check if broker is successfully started & alive.
- 9 Please note, whenever running the tests, ensure that the broker-statistics is started first then subscriber and then the publisher.
- 10 When running multiple iterations of a test, please press enter at the end of each run on the broker-statistics Publisher and subscriber console to start the next iteration.
- 11 For corresponding subscriber and publisher runs, please give the same tokens for correlating the results.
- 12 For detailed description of each workload model, please refer the document
Performance Benchmarking Plan.pdf
- 14 The database and all the allied tables have to be created manually before running the Publishers/Subscribers this is a one-time activity.

Pre-requisites for each Work Load Model

1. Broker , Publisher and Subscriber installed on three different machines
2. Open a terminal and navigate to the [mbsuite/config](#) folder of the broker-statistics
3. Open the [common-settings.properties](#) and set the values for the following –
db-url=jdbc:mysql://<host-name/IP address>/<database-name>?user=<database username>&password=<database password>
For e.g.
db-url=jdbc:mysql://10.88.203.39/redis-mbsuite?user=root&password=root123
4. Repeat steps 2 and 3 for subscriber & publisher

1 Work Load Model: WL1

1.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay= 40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 100 500 8100 redis redistest WL1`

Where WL1 – token name by which the test data will be stored in the database

100 - Min message size in bytes

500 - Increment in bytes

8100- Max message size in bytes

redis-is the task

redistest-is the group-name

1.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay =40`
 - b. `maxSubscriber =1`
 - c. `dumpDetails =false`
 - d. `maxTopics =1`
 - e. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the subscriber

`./run-subscriber-vary-size.sh 100 500 8100 redis redistest WL1`

where WL1 – token name by which the test data will be stored in the database

100 - Min message size in bytes

500 - Increment in bytes

8100- Max message size in bytes

redis-is the task in `mbsuite/config/subscriber-config.tmpl` file

redistest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-size.log`

1.3 Running the Publisher

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. **`msgSize=100`** (or may be blank because this is varying message-size test)
 - d. `dumpDetails=false`
 - e. `maxTopics=1`
 - f. `iteration=1`

3. Navigate to `mbsuite/bin/ext` folder

4. Run the following command for starting the publisher

`./run-publisher-vary-size.sh 100 500 8100 redis redistest WL1`

Where WL1 – token name by which the test data will be stored in the database

100 - Min message size in bytes

500 - Increment in bytes

8100- Max message size in bytes

redis -is the task in `mbsuite/config/publisher-config.tmpl` file

redistest-is the group-name in `mbsuite/config/publisher-config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-size.log`

2 Work Load Model: WL4

2.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 1 2 20 redis reditest WL4`

Where WL4 – token name by which the test data will be stored in the database

1 - Min subscribers
2 - Increment
20- Max subscribers
redis -is the task
reditest-is the group-name

2.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. **`maxSubscriber=1`**(or may be blank because this is varying subscriber test)
 - c. `dumpDetails=false`
 - d. `maxTopics=1`
 - e. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the subscriber

`./run-subscriber-vary-sub.sh 1 2 20 redis reditest WL4`

Where WL4 – token name by which the test data will be stored in the database

1 - Min subscribers
2 - Increment
20- Max subscribers
redis-is the task in `mbsuite/config/subscriber-config.tmpl` file
reditest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-sub.log`

2.3 Running the Publisher

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=60`
 - d. `dumpDetails=false`
 - e. `maxTopics=1`
 - f. `iteration=1`

3. Navigate to `mbsuite/bin/ext` folder

4. Run the following command for starting the publisher

`./run-publisher-vary-sub.sh 1 2 20 redis redistest WL4`

Where WL4 – token name by which the test data will be stored in the database

1 - Min subscribers

2 - Increment

20- Max subscribers

redis -is the task in `mbsuite/config/publisher-config.tmpl` file

redistest-is the group-name in `mbsuite/config/ publisher -config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-sub.log`

3 Work Load Model: WL4.1

3.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 1 2 20 redis reditest WL4.1`

Where WL4.1 – token name by which the test data will be stored in the database

- 1 - Min subscribers
- 2 - Increment
- 20- Max subscribers
- redis-is the task
- reditest-is the group-name

3.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. **`maxSubscriber=1`**(or may be blank because this is varying subscriber test)
 - c. `dumpDetails=false`
 - d. `maxTopics=1`
 - e. `iteration=1`

3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the subscriber

`./run-subscriber-vary-sub.sh 1 2 20 redis reditest WL4.1`

Where WL4.1 – token name by which the test data will be stored in the database

- 1 - Min subscribers
- 2 - Increment
- 20- Max subscribers
- redis-is the task in `mbsuite/config/subscriber-config.tmpl` file
- reditest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-sub.log`

3.3 Running the Publisher

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=1024`
 - d. `dumpDetails=false`
 - e. `maxTopics=1`
 - f. `iteration=1`

3. Navigate to `mbsuite/bin/ext` folder

4. Run the following command for starting the publisher

`./run-publisher-vary-sub.sh 1 2 20 redis reditest WL4.1`

Where WL4.1 – token name by which the test data will be stored in the database

1 - Min subscribers

2 - Increment

20- Max subscribers

redis-is the task in `mbsuite/config/publisher-config.tmpl` file

reditest-is the group-name in `mbsuite/config/publisher-config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command

`tail -f run-publisher-vary-sub.log`

4 Work Load Model : WL7

4.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 1 5 101 redis reditest WL7`

Where WL7 – token name by which the test data will be stored in the database

1 - Min subscribers,publishers,topics

5 - Increment

101- Max subscribers,publishers,topics

redis-is the task

reditest-is the group-name

4.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the Subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `maxSubscriber=1`
 - c. `dumpDetails=false`
 - d. **`maxTopics=1`**(or may be blank because this is varying topics test)
 - e. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the subscriber

`./run-subscriber-vary-topics.sh 1 5 101 redis reditest WL7`

where WL7 – token name by which the test data will be stored in the database

1 - Min subscribers,publishers,topics

5 - Increment

101- Max subscribers,publishers,topics

redis-is the task in `mbsuite/config/subscriber-config.tmpl` file

reditest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-topics.log`

4.3 Running the Publisher

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. **`msgSize=100`** (This message should vary from 100 to 8100 in increment of 500)
 - d. `dumpDetails=false`
 - e. **`maxTopics=1`** (or may be blank because this is varying topics test)

3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the publisher

`./run-publisher-vary-topics.sh 1 5 101 redis reditest WL7`

Where WL7 – token name by which the test data will be stored in the database

1 - Min subscribers,publishers,topics

5 - Increment

101- Max subscribers,publishers,topics

redis-is the task in `mbsuite/config/publisher-config.tmpl` file

reditest-is the group-name in `mbsuite/config/publisher-config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-topics.log`

NOTE: After completion of 1 iteration go to `mbsuite/bin/ext/config` and change the message

size in `publisher-config.properties` to 600 (for next run it will be increment of 500 i.e 1100 and continue up to 8100 increment of 500)

5 Work Load Model : WL8

5.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 50 50 600 redis reditest WL8`

Where WL8 – token name by which the test data will be stored in the database

50 - Min subscribers,publishers,topics

50 - Increment

600- Max subscribers,publishers,topics

redis-is the task

reditest-is the group-name

5.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `maxSubscriber=1`
 - c. `dumpDetails=false`
 - d. **`maxTopics=1`**(or may be blank because this is varying topics test)
 - e. `iteration=1`

3. Navigate to `mbsuite/bin/ext` folder

4. Run the following command for starting the subscriber

`./run-subscriber-vary-topics.sh 50 50 600 redis reditest WL8`

Where WL8 – token name by which the test data will be stored in the database

50 - Min subscribers,publishers,topics

50 - Increment

600- Max subscribers,publishers,topics

redis-is the task in `mbsuite/config/subscriber-config.tmpl` file

reditest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-topics.log`

5.3 Running the Publisher

Note: For this test go to mbsuite/config open publisher-config.tmpl and set value of `throttlingFactor` to 150 and

For e.g

```
<attribute>
  <key> throttlingFactor</key>
  <value>150</value>
</attribute>
```

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=256`
 - d. `dumpDetails=false`
 - e. **`maxTopics=1`** (or may be blank because this is varying topics test)
 - f. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the publisher

`./run-publisher-vary-topics.sh 50 50 600 redis reditest WL8`

Where `WL8` – token name by which the test data will be stored in the database

`50` - Min subscribers,publishers,topics

`50` - Increment

`600`- Max subscribers,publishers,topics

`redis`-is the task in `mbsuite/config/publisher-config.tmpl` file

`reditest`-is the group-name in `mbsuite/config/ publisher -config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-topics.log`

Note: After the test finish go to `mbsuite/config` open `publisher-config.tmpl` and reset value of `throttlingFactor` to `-1` .

6 Work Load Model : WL8 (message size 1024)

6.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 50 50 600 redis reditest WL8`

Where WL8 – token name by which the test data will be stored in the database

50 - Min subscribers,publishers,topics

50 - Increment

600- Max subscribers,publishers,topics

redis-is the task

reditest-is the group-name

6.2 Running the Subscriber

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the subscriber
2. Open the `subscriber-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `maxSubscriber=1`
 - c. `dumpDetails=false`
 - d. **`maxTopics=1`**(or may be blank because this is varying topics test)
 - e. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the subscriber

`./run-subscriber-vary-topics.sh 50 50 600 redis reditest WL8`

Where WL8 – token name by which the test data will be stored in the database

50 - Min subscribers,publishers,topics

50 - Increment

600- Max subscribers,publishers,topics

redis-is the task in `mbsuite/config/subscriber-config.tmpl` file

reditest-is the group-name in `mbsuite/config/subscriber-config.tmpl` file

5. To check if the subscriber is running properly and receiving messages, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-subscriber-vary-topics.log`

6.3 Running the Publisher

Note: For this test go to mbsuite/config open publisher-config.tmpl and set value of `throttlingFactor` to 150 and

For e.g

```
<attribute>
  <key> throttlingFactor</key>
  <value>150</value>
</attribute>
```

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=1024`
 - d. `dumpDetails=false`
 - e. **`maxTopics=1`** (or may be blank because this is varying topics test)
 - f. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the publisher

`./run-publisher-vary-topics.sh 50 50 600 redis redistest WL8`

Where WL8 – token name by which the test data will be stored in the database

50 - Min subscribers,publishers,topics

50 - Increment

600- Max subscribers,publishers,topics

redis-is the task in mbsuite/config/publisher-config.tmpl file

redistest-is the group-name in mbsuite/config/ publisher -config.tmpl file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-topics.log`

Note: After the test finish go to `mbsuite/config` open `publisher-config.tmpl` and reset value of `throttlingFactor` to -1 .

7 Latency test : latency as a varying message size

7.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbsuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 100 500 3100 redis-latency reditest LAT-VARY-SIZE`

Where LAT-VARY-SIZE – token name by which the test data will be stored in the database

100 - Min message size bytes

500 - Increment in bytes

3100- Max message size in bytes

redis-latency-is the task

reditest-is the group-name

7.2 Running the Publisher

Note: For this test go to `mbsuite/config` open `publisher-config.tmpl` and set value of `throttlingFactor` to 150 and

For e.g

```
<attribute>
    <key>throttlingFactor</key>
    <value>150</value>
</attribute>
```

1. Open a terminal and navigate to the `mbsuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=100`(or may be blank because this is varying message size test)
 - d. **`dumpDetails=true`**
 - e. `maxTopics=1`
 - f. `iteration=1`
3. Navigate to `mbsuite/bin/ext` folder
4. Run the following command for starting the publisher

`./run-publisher-vary-size.sh 100 500 3100 redis-latency reditest LAT-VARY-SIZE`

Where LAT-VARY-SIZE – token name by which the test data will be stored in the database

100 - Min message size bytes

500 - Increment in bytes

3100- Max message size in bytes

redis-latency -is the task in `mbsuite/config/publisher-config.tmpl` file

reditest-is the group-name in `mbsuite/config/ publisher -config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbsuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary-size.log`

NOTE: 1) There is no need of subscriber for latency test only broker-statistics & publishers are sufficient
2) After the test finish go to `mbsuite/config` open `publisher-config.tmpl` and reset value of `throttlingFactor` to -1 .

8 Latency test : latency as a varying throughput

8.1 Running the Broker-Statistics

1. Before running this model ensure that broker is running in another separate terminal
2. Open a terminal and navigate to the `mbSuite/bin/ext/config` folder of the broker
3. Open the `broker-config.properties` file and give the following values
 - a. `shutdownDelay=40`
 - b. `broker = redis-server`
4. Navigate to `mbSuite/bin/ext` folder
5. Run the following command for starting the broker statistics

`./run-broker-statistics.sh 2 2 20 redis-latency redistest LAT-VARY-THPUT`

Where LAT-VARY-THPUT – token name by which the test data will be stored in the database

2 - Min subscribers,publishers,topics

2 - Increment

20- Max subscribers,publishers,topics

redis-latency -is the task

redistest-is the group-name

8.2 Running the Publisher

Note: For this test go to `mbSuite/config` open `publisher-config.tmpl` and set value of `throttlingFactor` to 150 and

For e.g

```
<attribute>
    <key> throttlingFactor</key>
    <value>150</value>
</attribute>
```

1. Open a terminal and navigate to the `mbSuite/bin/ext/config` folder of the publisher
2. Open the `publisher-config.properties` file and give the following values
 - a. `runSec=10`
 - b. `maxPublisher=1`
 - c. `msgSize=100`
 - d. **`dumpDetails=true`**
 - e. **`maxTopics=1`** (or may be blank because this is varying topics test)
 - f. `iteration=1`
3. Navigate to `mbSuite/bin/ext` folder
4. Run the following command for starting the publisher

`./run-publisher-vary-topics.sh 2 2 20 redis-latency redistest LAT-VARY-THPUT`

Where LAT-VARY-THPUT – token name by which the test data will be stored in the database

2 - Min subscribers,publishers,topics

2 - Increment

20- Max subscribers,publishers,topics

redis-latency -is the task in `mbSuite/config/publisher-config.tmpl` file

redistest-is the group-name in `mbSuite/config/ publisher -config.tmpl` file

5. To check if the publisher is running properly, in another terminal, navigate to the `mbSuite/bin/ext/logs` folder and give the following command
`tail -f run-publisher-vary- topics.log`

NOTE: 1) There is no need of subscriber for latency test only broker-statistics & publishers are sufficient
2) After the test finish go to `mbSuite/config` open `publisher-config.tmpl` and reset value of `throttlingFactor` to -1

