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Migrating to Elastic Cache Using RIOT

By Anish Prasad

2 min

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RIOT is an open source tool used for Migrating Data from Self Manage Redis to Elastic Cache

More on RIOT tool can be found [here](#)

**Mandatory Config Needed**

1. Need One Instance with High Network Bandwidth (prefer c6gn series) for RIOT installation

2. Instance should have enough memory that depends on the Source Redis Cluster used.

3. RUN the below command on **SOURCE REDIS** to set `notify-keyspace-events` with value `KEA`

1 for server in "<node-1>" "<node-2>" "<node-3>" "<node-4>" "<node-5>" "<node-6>" ; do

2 redis-cli -c -h "\$server" -p 6379 CONFIG SET notify-keyspace-events "KEA"

3 done

**Installation OF RIOT on a new instance**

1. Make sure you have sudo access for the new instance (we have used RIOT version 4.1.3)

2. Java 11+ must be installed we have used Java 17 for this

1 wget https://github.com/redis/riot/releases/download/v4.1.3/riot-4.1.3.tar

2

3 tar -xvf riot-4.1.3.tar

4

5 cd riot-4.1.3/bin/

6

7 ls // it will list the riot script which will be used for running the migration

**Command To Execute**

Test your command with `dry run` flag

1 ./riot replicate --mode live --source-cluster h3ns1h-be-redis6-0-7-1.stage-rc.in:6379

If every thing goes well, then we can go for the final show

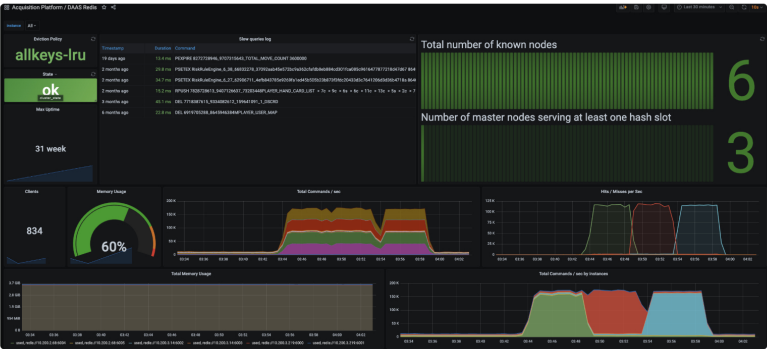
1 ./riot replicate --mode live --source-cluster h3ns1h-be-redis6-0-7-1.stage-rc.in:6379

## Monitoring

1. Make Sure you monitor the DashBoards of Self Managed Redis and the Cloud Watch DashBoards of Elastic Cache

## Attached screenshots of the activity performed

The figure consists of three screenshots. The top two are terminal outputs showing the execution of the RIOT tool. The first terminal output shows the command `./riot replicate --mode live --source-cluster h3ns1h-be-redis6-0-7-1.stage-rc.in:6379` being executed. The second terminal output shows the command `./riot replicate --mode live --source-cluster h3ns1h-be-redis6-0-7-1.stage-rc.in:6379` being executed. The bottom screenshot is a CloudWatch dashboard showing CPU utilization for the instance. The dashboard has a title 'CPU utilization (%)' and a y-axis labeled 'Percent' ranging from 0 to 14. The x-axis shows time from 00:00 to 00:05. There are four data series: 'h3ns1h-be-redis6-0-7-1.stage-rc.in:6379', 'h3ns1h-be-redis6-0-7-1.stage-rc.in:6379', 'h3ns1h-be-redis6-0-7-1.stage-rc.in:6379', and 'h3ns1h-be-redis6-0-7-1.stage-rc.in:6379'. The dashboard also shows a 'Metrics (59/59)' section with a search bar and a 'Alerts recommendation' section.



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