

Redis Cluster Manager

Port of redis-trib.rb into redis-cli

The current redis-trib.rb

- Current administration tool used to manage Redis Clusters, bundled into Redis sources and written in pure Ruby.
- It has problems with Ruby compatibility: depending on the version of the installed **redis** ruby gem it can even crash.
- It's quite slow, especially when it's performing heavier operations such as moving slots (ie. resharding).

The new Cluster Manager

- It's written in standard C
- It's integrated within redis-cli
- It has no dependency problems.
- It's quite faster than the Ruby implementation

The new Cluster Manager

It currently supports the following subcommands

- create
- check
- info
- reshard
- call

The new Cluster Manager

Examples

```
redis-cli --cluster create 127.0.0.1:7000 127.0.0.1:7001 127.0.0.1:7002 --cluster-replicas 1
```

```
redis-cli --cluster reshard 127.0.0.1:7000 --cluster-to  
cac86706c8f11f9df3a0f5a1c896a1a1bdf88b31 --cluster-from all --cluster-slots 50
```

The new Cluster Manager

Some benchmark (resharding)

Tool	Nodes	Keys	Moved Slots	Time (ms)	Speed
redis-cli	3	1000	500	1448	1.82x
redis-trib.rb	3	1000	500	2661	
redis-cli	3	1000	100	273	2.23x
redis-trib.rb	3	1000	100	610	
redis-cli	3	3000	1000	2350	1.6x
redis-trib.rb	3	3000	1000	3782	
redis-cli	3	50000	2000	5131	1.4x
redis-trib.rb	3	50000	2000	7162	
redis-cli	6	3000	500	2227	2.7x
redis-trib.rb	6	3000	500	5979	
redis-cli	6	3000	50	279	3.24x
redis-trib.rb	6	3000	50	904	