REDIS CLUSTER PERFORMANCE TEST RESULTS

Master Nodes : 3 Master(Istanbul) + 3 Master(Ankara)

Slave Nodes : 3 Slave(Istanbul) + 3 Slave (Ankara)

Redis Memory : 50GB per node

Benchmark Tool: redis-benchmark

AOF File : Yes

**TEST 01 : Over Single Instance ( 6 Shard Cluster ) - TPS**

**1 client con. 3 client con. 5 client con. 10 client con. 20 client con. 40 client con.**

**SET :** 18K 49K 76K 115K 150K 165K

**GET :** 19K 49K 76K 115K 163K 172K

**TEST 02 : Over 3 (Conn. Same DC) Instance ( 6 Shard Cluster ) – TPS – Per Node**

**1 client con. 3 client con. 5 client con. 10 client con. 20 client con. 40 client con.**

**SET :**  66K 93K 120K

**GET :**  70K 95K 130K

**TEST 03 : Over 6 (Conn. Same DC) Instance ( 6 Shard Cluster ) – TPS – Per Node**

**1 client con. 3 client con. 5 client con. 10 client con. 20 client con. 40 client con.**

**SET :**  63K 100K 115K

**GET :**  70K 106K 125K

**TEST 04 : Single Instance ( 6 Shard Cluster ) – TPS – 1 client**

**Only RDB datafile AOF File On**

**SET :** 60K 38K

**GET :** 64K 46K

**TEST RESULTS**

Test 1 : While number of parallel client connection increase , Redis performance also increase almost linearly until 20 connection.

Test 2 3 : Using with different redis cluster servers for connection can increase total capacity

Nearly (1 Node Capacity - %15-20 ) X Sharding Number

Test 4 : Using redis with only rdb ( without aof ) data file option can benefit more than %40 performance gain