

Ledger Screenshot :

Ledger contains Operation id and type, Microseconds Running, Client IP address, Namespace/Collection on which operation is running on, Current and available connections, Network byte input and byte output, Network number of requests, Total number of inserts, queries, updates at the moment, Total number of updates at the moment, Number of page faults, Virtual and resident memory of a process

```
_id: ObjectId("5aaaf698d49ad729c08f58db")
opid: 291619
operation: "update"
microsecs_running: 330
client: "127.0.0.1:36720"
namespace: "POCDB.POCCOLL5"
time: 2018-03-15 08:41:28.322
current_connections: 9
available_connections: 51191
active_clients: 16
current_queue: 0
network_bytesIn: 86200665
network_bytesOut: 56528302
network_numRequests: 291360
opcounters_insert: 144862
opcounters_query: 144414
opcounters_update: 143942
extra_info_page_faults: 193
memory_virtual: 1029
memory_resident: 738
```

Screenshot : kick start the load test

```
[ubuntu@ip-172-31-27-35:~]$ java -jar POCDriver.jar -k 20 -i 20 -u 20 -d 600 -t 3 -e -y 10
MongoDB Proof Of Concept - Load Generator
Worker thread 0 Started.
Worker thread 1 Started.
Worker thread 2 Started.
```

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After 10 seconds, 15165 new records inserted - collection has 15165 in total
1387 inserts per second since last report 0.00 % in under 50 milliseconds
144 keyqueries per second since last report 100.00 % in under 50 milliseconds
1453 updates per second since last report 90.48 % in under 50 milliseconds
0 rangequeries per second since last report 100.00 % in under 50 milliseconds
```

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After 20 seconds, 36645 new records inserted - collection has 36645 in total
2148 inserts per second since last report 0.00 % in under 50 milliseconds
210 keyqueries per second since last report 100.00 % in under 50 milliseconds
2157 updates per second since last report 90.36 % in under 50 milliseconds
0 rangequeries per second since last report 100.00 % in under 50 milliseconds
```

Screenshot : Mongostat to check performance

```
[ubuntu@ip-172-31-27-35:~]$ mongostat
insert query update delete getmore command % dirty % used flushes vsize res qr|qw ar|aw netIn netOut conn time
*0 *0 *0 *0 0 14|0 0.0 0.1 0 280M 53.0M 0|0 0|0 1.99k 52.7k 4 2018-03-15T21:09:53Z
*0 *0 *0 *0 0 18|0 0.0 0.1 0 280M 53.0M 0|0 0|0 1.67k 286k 3 2018-03-15T21:09:54Z
*0 *0 *0 *0 0 19|0 0.0 0.1 0 280M 53.0M 0|0 0|0 1.74k 267k 2 2018-03-15T21:09:55Z
*0 *0 *0 *0 0 14|0 0.0 0.1 0 280M 53.0M 0|0 0|0 1.99k 52.1k 4 2018-03-15T21:09:56Z
339 416 331 *0 0 34|0 0.1 1.9 0 304M 73.0M 0|0 1|0 216k 343k 5 2018-03-15T21:09:57Z
1016 1100 1181 *0 0 26|0 0.5 5.2 0 339M 106M 0|0 1|0 636k 551k 7 2018-03-15T21:09:58Z
1429 1258 4193 *0 0 10|0 1.1 7.7 0 364M 130M 0|0 0|0 1.08m 389k 9 2018-03-15T21:09:59Z
864 1046 13980 *0 0 24|0 1.3 8.6 0 374M 140M 0|0 0|1 1.67m 592k 5 2018-03-15T21:10:00Z
1854 1709 1949 *0 0 10|0 2.0 10.3 0 391M 157M 0|0 0|1 1.10m 452k 7 2018-03-15T21:10:01Z
1621 1652 1667 *0 0 47|0 2.5 11.5 0 405M 170M 0|0 0|0 977k 1.11m 5 2018-03-15T21:10:02Z
insert query update delete getmore command % dirty % used flushes vsize res qr|qw ar|aw netIn netOut conn time
1896 1828 1793 *0 0 28|0 3.1 12.7 0 418M 182M 0|0 0|0 1.11m 692k 9 2018-03-15T21:10:03Z
1792 1822 1636 *0 0 24|0 3.7 13.9 0 430M 194M 0|0 0|0 1.05m 817k 7 2018-03-15T21:10:04Z
2032 1783 1997 *0 0 20|0 4.3 15.0 0 443M 206M 0|0 0|0 1.17m 585k 7 2018-03-15T21:10:05Z
1727 2079 1809 *0 0 18|0 5.0 16.2 0 456M 218M 0|0 0|0 1.08m 744k 8 2018-03-15T21:10:06Z
2029 1815 2035 *0 0 10|0 5.2 17.4 0 468M 229M 0|0 0|0 1.18m 459k 5 2018-03-15T21:10:07Z
2080 2143 2043 *0 0 27|0 5.3 18.6 0 482M 242M 0|0 0|0 1.24m 822k 5 2018-03-15T21:10:08Z
2220 2159 2177 *0 0 28|0 5.3 19.9 0 495M 256M 0|0 0|0 1.31m 861k 5 2018-03-15T21:10:09Z
2185 2003 2160 *0 0 10|0 4.9 21.0 0 508M 268M 0|0 0|0 1.28m 503k 8 2018-03-15T21:10:10Z
2090 2282 2148 *0 0 24|0 5.1 22.3 0 522M 281M 0|0 1|0 1.28m 877k 11 2018-03-15T21:10:11Z
2063 1924 2063 *0 0 6|0 4.8 23.4 0 535M 293M 0|0 1|0 1.21m 480k 6 2018-03-15T21:10:12Z
insert query update delete getmore command % dirty % used flushes vsize res qr|qw ar|aw netIn netOut conn time
2050 2102 2067 *0 0 30|0 4.8 24.6 0 548M 304M 0|0 0|0 1.23m 826k 5 2018-03-15T21:10:13Z
2049 2059 2007 *0 0 16|0 4.7 25.7 0 561M 316M 0|0 0|0 1.22m 548k 8 2018-03-15T21:10:14Z
2142 2141 2173 *0 0 21|0 4.7 26.8 0 573M 327M 0|0 0|0 1.28m 706k 7 2018-03-15T21:10:15Z
2425 2218 2210 *0 0 18|0 5.2 28.2 0 588M 341M 0|0 0|0 1.39m 658k 5 2018-03-15T21:10:16Z
1994 2165 2052 *0 0 32|0 5.2 29.2 0 600M 352M 0|0 1|0 1.22m 832k 5 2018-03-15T21:10:17Z
2723 2444 2723 *0 0 22|0 6.2 30.6 0 614M 364M 0|0 0|0 1.59m 846k 9 2018-03-15T21:10:18Z
2403 2460 2451 *0 0 15|0 5.7 31.9 0 627M 376M 0|0 0|0 1.44m 656k 5 2018-03-15T21:10:19Z
2651 2668 2548 *0 0 17|0 5.6 33.2 0 642M 389M 0|0 0|0 1.57m 661k 11 2018-03-15T21:10:20Z
2629 2664 2664 *0 0 23|0 5.5 34.6 0 657M 402M 0|0 0|0 1.57m 1.03m 5 2018-03-15T21:10:21Z
2690 2701 2720 *0 0 31|0 5.3 35.9 0 672M 416M 0|0 1|1 1.60m 936k 7 2018-03-15T21:10:22Z
```

Screenshot of ledger data Visualisation in mongodb compass

