**MongoDB**

**Environment Configuration**

Operating Environment:

-Operating System: Amazon EC2 Ubuntu 18.04

-Version of MongoDB: 3.6.0

-Version of YCSB: 0.17.0

To build YCSB, we need to install python, maven, java environment.

-sudo apt install openjdk-8-jre-headless

-sudo apt install maven

-sudo apt install python

Download YCSB from this link:

https://github.com/brianfrankcooper/YCSB/releases/download/0.17.0/ycsb-0.17.0.tar.gz

-tar xfvz ycsb-0.17.0.tar.gz

Next, we need to install MongoDB, and create a database called ycsb.

-sudo apt-get install mongodb

-mongo

-use ycsb

**Test Steps**

1. Start mongoDB at port 27017 and build a test database.

2. Write a workload file: -vim workload/workloada

3. Load data: load

./bin/ycsb load mongodb -s -P workloads/workloada -p mongodb.url=mongodb://localhost:27017/ycsb?w=0

1. Run the pressure test: run

./bin/ycsb run mongodb -s -P workloads/workloada -p mongodb.url=mongodb://localhost:27017/ycsb?w=0

4. During the pressure measurement, it can be observed together with the monitoring of graphical interfaces such as mongostat, iostat, top, etc.

5. Stress test under different concurrency.

6. Issue a test report.