**MySQL**

**Environment Configuration**

Operating Environment:

-Operating System: Amazon EC2 Ubuntu 18.04

-Version of MySQL: 5.7

-Version of YCSB: 0.17.0

**Environment set up steps:**

sudo apt-get update

sudo apt install openjdk-11-jdk-headless maven python

Download ycsb:

curl -O --location <https://github.com/brianfrankcooper/YCSB/releases/download/0.17.0/ycsb-0.17.0.tar.gz>

tar xfvz ycsb-0.17.0.tar.gz

Install MySQL

sudo apt-get install mysql-server

sudo apt install mysql-client

sudo apt install libmysql-java

sudo apt install libmysqlclient-dev

Change MySQL password:

sudo cat /etc/mysql/debian.cnf

mysql -u debian-sys-maint -p

use mysql;

update mysql.user set authentication\_string=password('root') where user='root' and Host ='localhost';

update user set plugin="mysql\_native\_password";

flush privileges;

quit;

sudo service mysql restart

mysql -u root -p

Create a database ycsb in MySQL:

create database ycsb;

use ycsb;

CREATE TABLE usertable (

YCSB\_KEY VARCHAR(255) PRIMARY KEY,

FIELD0 TEXT, FIELD1 TEXT,

FIELD2 TEXT, FIELD3 TEXT,

FIELD4 TEXT, FIELD5 TEXT,

FIELD6 TEXT, FIELD7 TEXT,

FIELD8 TEXT, FIELD9 TEXT

);

quit;

Create a file named db.properties

cd ycsb-0.17.0

touch db.properties

vi db.properties

db.driver=com.mysql.jdbc.Driver

db.url=jdbc:mysql://127.0.0.1:3306/ycsb

db.user=root

db.passwd=root

:wq

Upload mysql-connector-java to EC2

**Test Steps:**

1. Run workload

bin/ycsb load jdbc -P workloads/workloada -P db.properties -cp mysql-connector-java.jar

bin/ycsb run jdbc -P workloads/workloada -P db.properties -cp mysql-connector-java.jar

1. Edit the workload file to fit your test

~/ycsb-0.17.0/workloads/workloada

1. Config MySQL for more tests