USER MANUAL

Quantil Coding Exercise

Team:

Anoop S Somashekar

Document status overview

Document title: User manual

Identification: User manual.pdf

Author:

Anoop S Somashekar

Document status: Final

Version	Primary Author(s)	Description of Version	Reason of Change	Date
1.0	Anoop	Final	Documentation	08/02/2016

1 INTRODUCTION

The coding exercise has two parts. First part is to generate the log files with CPU usage data for multiple servers for a specific day at the user specified location. The second part is the query engine which take the location of log files as an input and returns the CPU usage for the query specified machine and time interval

2 Help-Guidance

The user interface (UI) is an interactive command line tool which reads user's command from standard input.

2.1 Commands

Copy Generator.jar, Query.jar and conf.properties into any directory. The following commands can be run using any java run time environment and running the commands from the above directory.

2.1.1 Generator

Log files can be generated by running Generator.jar from the command line as below:

java -jar Generator.jar data_path [2016-08-15]

```
D:\Test>java -jar Generator.jar D:\log
Generating logs.....................................................
Log generation completed!!!!!!!!
Elapsed time is 81370 milli seconds

D:\Test>
```

The Generator class requires data_path as the command line argument where the generated logs will be stored. There is an optional argument which is the date for which the log has to be generated. If there is no optional argument then it uses “2016-01-01” as the default date.

If the conf.properties is copied in the same directory as the jar file then it picks the number of servers and number of cores configuration from property file otherwise it uses the default values of 1000 and 2 respectively.

2.1.1 Query

java -jar Query.jar data_path

The Query class requires data_path as the command line argument where the logs are stored.

On getting the prompt “>”, the queries can be entered to get the results as shown:

QUERY IP_ADDR CPU_ID YYYY-MM-DD HH1:MM1 YYYY-MM-DD HH2:MM2

E.g. QUERY 192.168.1.1 1 2016-08-15 00:00 2016-08-15 00:15

```
>QUERY 192.168.1.1 1 2016-08-15 10:00 2016-08-15 10:03
CPU1 usage on 192.168.1.1:
(2016-08-15 10:00, 71%), (2016-08-15 10:01, 45%), (2016-08-15 10:02, 81%)
Elapsed time is 101 milli seconds
>
```

At “>” prompt, exit command will exit the program as shown:

```
>exit
Exiting!!!!!

D:\Test>
```