

## USER MANUAL with Example Screenshots

### Execution steps

- 1) Created a directory monitoring 2. Ran generate.sh script and logs were generated in DATA\_PATH directory. The file “log1.txt” is created in DATA\_PATH.

```
jason@jason-Inspiron-5577:~/monitoring2$ ls -ltr
total 16
-rwxrwxrwx 1 jason jason 3184 Apr  6 23:17 query.sh
-rwxrwxrwx 1 jason jason  571 Apr  6 23:39 generate.sh
-rwxrwxrwx 1 jason jason 3154 Apr  6 23:45 monitoring_system.cpp
-rwxrwxrwx 1 jason jason  629 Apr  6 23:45 monitoring_system.h
jason@jason-Inspiron-5577:~/monitoring2$ ./generate.sh DATA_PATH
Compiling source code
Compilation successful
Logs being generated
File closed
Logs generated in DATA_PATH directory
jason@jason-Inspiron-5577:~/monitoring2$ cd DATA_PATH/
jason@jason-Inspiron-5577:~/monitoring2/DATA_PATH$ ls -ltr
total 119472
-rw-r--r-- 1 jason jason 122339180 Apr  7 00:52 log1.txt
jason@jason-Inspiron-5577:~/monitoring2/DATA_PATH$
```

- 2) Ran the query.sh script on the DATA\_PATH directory

Gave an input query

CPU usage is displayed for the time period specified from 00:00 to 00:05.

```
jason@jason-Inspiron-5577:~/monitoring2$ bash ./query.sh DATA_PATH
>QUERY 170.145.1.10 1 2014-10-31 00:00 2014-10-31 00:05
CPU1 usage on 170.145.1.10:
(2014-10-31 00:00,1%),(2014-10-31 00:01,67%),(2014-10-31 00:02,71%),(2014-10-31
00:03,60%),(2014-10-31 00:04,1%),
```

## Error Cases

- 1) Ran the query.sh file without giving the directory path.

```
jason@jason-Inspiron-5577:~/monitoring2$ bash ./query.sh
Please provide proper command.Example- ./query.sh DATA_PATH
jason@jason-Inspiron-5577:~/monitoring2$
```

- 2) Gave an invalid date as input in the query. Error Traces were printed.

```
jason@jason-Inspiron-5577:~/monitoring2$ bash ./query.sh DATA_PATH
>QUERY 170.145.1.10 1 2014-10-01 00:00 2014-10-01 00:05
No data found. Possible reasons could be either data not found for the given input or Invalid command.
Type Help to see the commands and format of query
No data found. Possible reasons could be either data not found for the given input or Invalid input or Invalid Command.
Type Help to see the commands and format of query
```

I spent around 2 days (8 hours each day) to complete this assignment.