**GENERAL**

**Server responce time:**

16000 documents

Server time = 8ms

Postman = 7.1 secs

**After Boot Up:**

/etc/init.d/noip start

/etc/init.d/hook start

**Mosquitto**

Start mosquitto = mosquitto

Start mosquitto in background = mosquitto -d

Stop = sudo killall mosquitto

Start in Debug mode = mosquitto -v

**Node JS API**

npm install mqtt -g

<https://www.rethinkdb.com/docs/guide/javascript/>

<https://blog.risingstack.com/getting-started-with-nodejs-and-mqtt/>

Important files in the Api Node Application:

1. user.js (DB queries are defined here)
2. userRoute.js (http get path is defined here)

Get document with username "haider" = localhost:4000/v1/users/haid

Get all devices wil be called at app launch and home screen refresh

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**PYTHON**

**Python Hook Service:**

/haider/hook/hook.py (location)

/etc/init.d/hook start

/etc/init.d/hook stop

**Connect to ReThink Server:**

r.connect( "54.152.114.19", 28015).repl()

**Insert field in table:**

r.db("automateDb").table("devices").insert([

    {

            "mac": "5CCF7F8C1278 ",

            "state": "none",

            "status": "0",

            "userid": "1234"

    }

]).run()

**Update field in table against the MAC address:**

r.db("automateDb").table("devices").filter({"mac":"21FBB8E4"}).update({"status":"on"}).run()

**Python dependencies:**

sudo

-get install python-pip

pip install paho-mqtt

pip install rethinkdb

**Python MQTT:**

<https://pypi.python.org/pypi/paho-mqtt>

<https://sakshambhatla.wordpress.com/2014/08/11/simple-mqtt-broker-and-client-in-python/>

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automatepakistaN1

**AMAZON WEB SERVICE:**

US - East N. Virginia

Ip: [http://54.210.101.205](http://54.210.101.205:8080/)

automate.access.ly

**Iam:**

*User:* HaiderMirza

*Paswd:* haider123?\_

*Acc number:* 628567010898

*Link:*https://628567010898.signin.aws.amazon.com/console/

*Access key ID:*AKIAIJ3CHERAJ67RI6ZA

*Secret access key:* BV7dswrP8rVqx2RRZxp2WCCvwdHsI5ytrmkMa9Bo

App publishes on (aliabbas)

App subscribes to (haider)

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**NO - IP:**

**NO IP**

CHANGE CONFIGURATION

/usr/local/bin/noip2 -C

START

/usr/local/bin/noip2

IP DUC (Dynamic Update Client) is installed on the Pi and it is binded to a host name

(http://haidermirza.ddns.net)