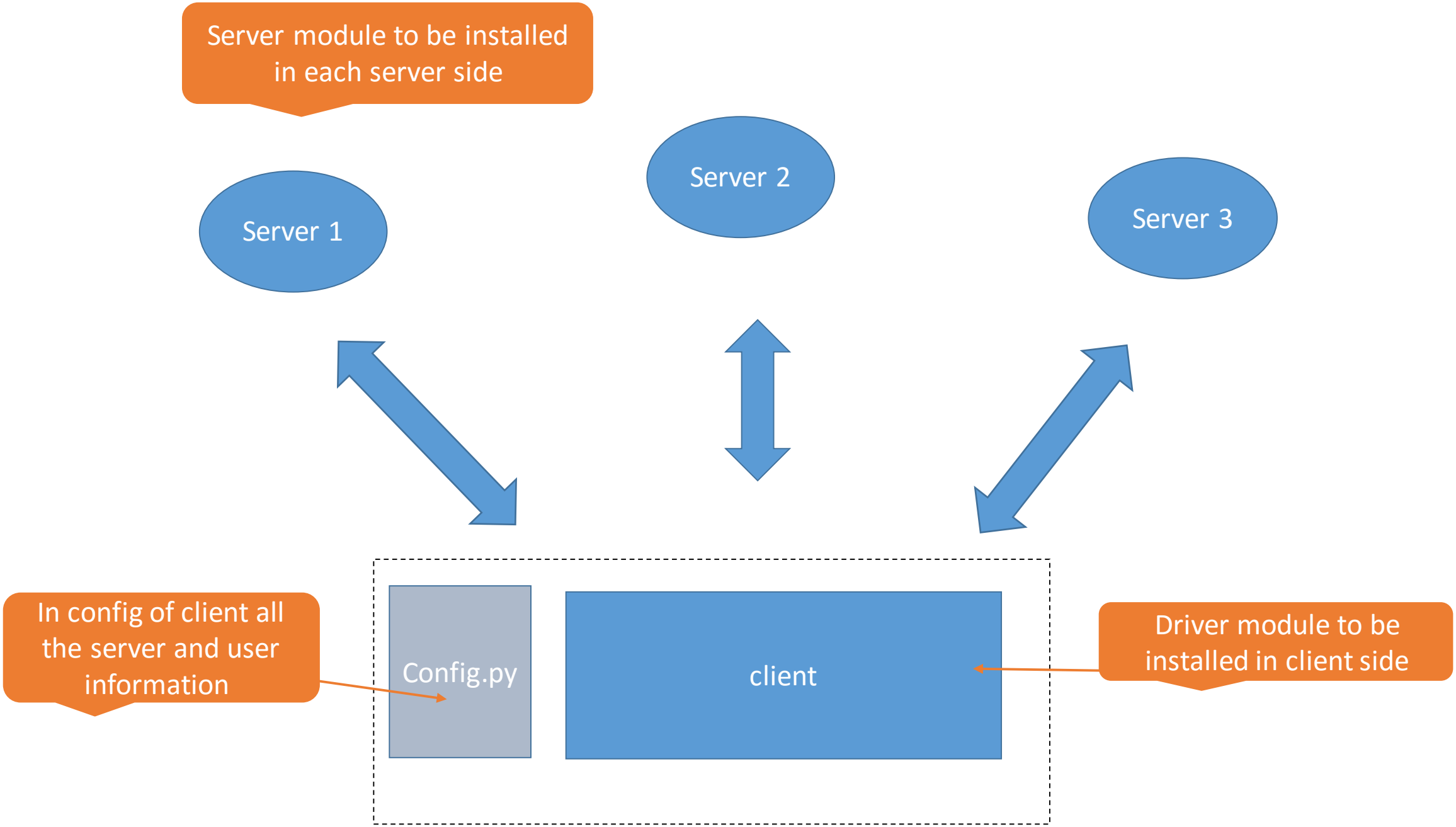
Server module to be installed in each server side
Server 1
Server 2
Server 3
In config of client all the server and user information
Config.py
client
Driver module to be installed in client side

Design principles

- In this application we have two modules . Server module and driver module.
- Server module is to be installed in server sides and Driver module is in client side.
- Driver module:--

Here in "config.py" all the server and user address are saved so that getting this we can sent certain server information to a certain user.

In "driver.py" send_simple_message() send email to user .

get_status_of_servers(): is used if server do not respond for 5 sec automatically it will sent email to the user.

- Server Module :

Here in "stats.py" all the function are written which will return system information.

get_system_status() - will give system status like RAM and CPU used

get_process_list() - will give all the process running in server and we can filter it by number of process by CPU % used .

run_command() - can be used to run command in server

In "server.py" we authenticate the user and give the user a token to get desired server information

How to install :

System requirements: python 3.5, works on linux system only

Server side:

1. download from github https://github.com/geeksambit/marax-ai.git.

2.unzip the folder

3. install all the constraints inside requrements.txt inside 'server' folder .

4.run server.py in server side(in terminal/comand : python server.py)

Client Side:

1. Open the Driver folder.

2.run driver.py in server side(in terminal/comand : python driver.py)

How to run:

In order to get server information user has to log in first.The server will give a authentication token ;using this token user can get desired server information.

1.first we have to exicute the file "server.py" in "Server" folder .Then the application will ru in a port(ex: http://127.0.0.1:5000/)

2.to get the ststus user have to log in first .So go to "http://127.0.0.1:5000/login" in browser. Here we have to provide username and password ="HelloDude".

3.It will return a token_id .(ex:"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJleHAiOjE1MTMyNzc5NzAsInVzZXIiOiJzYW1iaXQifQ.ARnOIT1Ja4jaKtXaN5ziOdCaqlLtG7wNnrJcSLiNjuo")

4.To get status : "http://127.0.0.1:5000/stats/?token=token_id

5. similarly we can get processlist :"http://127.0.0.1:5000//processlist/?token=token_id

- Flaw in Design

1.In the Unit test as the function returns instant system information data which varies every time . It is difficult pass through unit test.

2. I have tried to send information by email and text message .As text message API service (like twilio) are not giving free service now-a-days I could not use it. That's why I used "mailgun " Services for emailing the user.