**Cracker – Pcycys Project**

**Specification**

Project location: <https://github.com/sahargavriely/minions>

The final project includes a **client**, which streams md5 hashed phone number and configuration file to a **master** **server**. The server reads the configuration file and setup the **minion servers** accordingly. After that, the master sever sends the hashed password to the minions. Finely the minions crack the hashed password.

Every 10 seconds, the master server stores a txt file, which acts as a chace to save the last state. So, when the master server crushes all we need to do is to set him up again send a restart order from the client and he will continue from the last place he stopped.

**Please note:**

1. I didn’t succeed in setting up a remote server. Although, I was able to connect to remote machine copy the script of the minion server to the machine, but, unfortunately, I was able to run commands remotely. Hence setup minion server remotely or reset minion server in case of a crush.
2. I assumed the servers has python and windows operating system.

**The project**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ git clone <https://github.com/sahargavriely/minions.git> | |  |
|  |

activation:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ **cd** **minions**  $ venv/Scripts/activate.bat | |  |
|  |

We should be ready to roll.

(In event of virtual environment failure, all you need to do in to install the requirements.txt file)

**The master server**

The server should be available as **minion.server** and expose the following CLI:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ **python** -m minions.server run-server \        -h/--host '127.0.0.1'          \        -p/--port 8000 | |  |
|  |

Or simply:

|  |  |
| --- | --- |
| $ **python** minions\server\masterserver.py #  With the arguments of host '127.0.0.1’ and port 8000 |  |
|  |

The server itself should receive the uploaded CSVs and decide if this CSV is relevant for the experiment type, all the CSV’s are saved in a cache folder which resets every time the server is initiated, when the relevant CSV’s are in the cache the server pass them to the parsers based on the experiment type and the parser\_type mentioned in the input file.

When the server is initialized it loads all the available parsers and is ready to receive files and locate them in a temporary folder inside the cache folder named as the postion\_id.

**The minion servers.**

The server should be available as **minion.minionserver** and expose the following CLI:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ **python** -m minions.minionserver run-server \        -h/--host '127.0.0.1'          \        -p/--port 8000 | |  |
|  |

The server itself should receive the uploaded CSVs and decide if this CSV is relevant for the experiment type, all the CSV’s are saved in a cache folder which resets every time the server is initiated, when the relevant CSV’s are in the cache the server pass them to the parsers based on the experiment type and the parser\_type mentioned in the input file.

When the server is initialized it loads all the available parsers and is ready to receive files and locate them in a temporary folder inside the cache folder named as the postion\_id.

**the client**

The client should be available as **minions.client** and support the following CLI:

1. Configuration of minions server uplaod:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ **python** -m minions.client upload-config \       -h/--host '127.0.0.1'             \        -p/--port 8000                    \        -hp/--hashedpassword 0500000000   \        'db.ini' | |  |
|  |

Where db.ini file can contain multiple fields. For example:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| [name\_of\_the\_minion]  state = already up or not  ip = ip address  host = host to be  port = port to be  user = username of the machine it going to run on  password = the respective password  [up\_local\_or\_not\_local]  state = up  host = 127.0.0.1  port = 5555  [down\_local]  ip = 127.0.0.1  user = sahar gavriely  password =  port = 5556  [down\_not\_local]  ip = 127.0.0.2  user = sahar gavriely  password =  port = 5557 | |  |
|  |

1. Resetting the last command due to crush of the master server:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| $ **python** -m minions.client reset-server \       -h/--host '127.0.0.1'             \        -p/--port 8000 | |  |
|  |