STANDARD OPERATING PROCEDURE:

Centralized Uptime Monitoring for Enterprise Cloud Platform

DEPARTMENT: Emerging Technologies

Procedure:

To establish guidelines for executing python files for visualizing Up-time data of various servers owned and run by the company in different zones across the country.

Remarks:

Each graph in the output is visualizing two sets of data. The bar graphs represents the number of days that a specific server has been up.

The line graph shows the time elapsed since a server last reset. The values plotted are in the number of minutes since last reset.

The images of each zone's graph are included in the "images" folder in the repository.

Procedure:

1. All seven files – "BLR.csv", "Amd.csv", "MUM.csv", "FDB.csv", "plotting.py", "data.py" need to be copied and pasted in the same directory. The images folder holds the images of the graphs.
2. The Hostnames of the servers and their respective up-time information can be accessed from the four .csv format files. These files contain the information of all hosts belonging to a specific zone. Each .csv file contains data to hostnames of a specific zone.
3. To view the output, open the file named "plotting.py" in any python IDLE and run (press 'F5' key in case of standard python IDLE). This code runs, and opens the computer's default web browser to display the output.
4. The first graph appearing is shown in image –"First.png ". This is a combination of graphs of all four zones, giving information of all hostnames of all zones
5. A specific zone's visualized data can be obtained by clicking on the dropdown box and selecting any one of the four zone names.
6. Information relating to a specific hostname can be viewed by hovering mouse above the specific hostname on the graph.