# Installation Guide

1. Download and install the latest Python distribution, i.e. Python version 3.4.3 at <http://www.python.org/downloads>/
2. Download the DimpleJS library from [www.dimplejs.org](http://www.dimplejs.org) . Locate dimple.v2.1.3.min.js under the dimple/dist folder.
3. Download the D3.js library from [www.d3js.org](http://www.d3js.org). Locate d3.min.js in the folder.

# Operation Guide

1. Copy log file from Eduroam FLR (IP: 203.30.39.51) and rename the copy with the previous day date at 0000hrs.
2. Transfer the copied file to Eduroam Stats (IP: 203.30.39.58) for processing.
3. Run convert.py to extract information from the log file and store the results into Daily/Monthly/Yearly CSV files for data visualisation.
4. Run convertSingaren.py to extract information from log file and store the total stats into ServerLoad CSV file.
5. Run CreateHTML.py to create the html files with the graphs for each IHL. Check that all the IHLs are represented in the ihlNames list in the python file. Also check the filepath of the csv files in the html code is correct.
   1. Check this part eg: d3.csv("Daily"""+month+year+""".csv", function (data)... for dailychart, monthlychart and yearlychart.
6. Run CreateHTML\_singaren.py to create the html file for the eduroam server load stats for singaren staff.
7. Transfer the html files on to the Web server and the csv files in the same directory as the html files via FTP. (IP: 203.30.39.3).
8. Web Server displays the information on webpages of the singaren website.

(e.g. http://www.singaren.net.sg/stats/nus.html)

# Maintenance

1. Before running convert.py, please check the filepath input before running to ensure that the radsecproxy file is in the right working directory. The same goes for the other files that need to be accessed by convert.py.

i.e. log\_file = open(“radsecproxy.log\_”+day+month+year\_2numbers,”r”)

results(IHL\_Array,"Stats\_results/results.log\_"+day+month+year\_2numbers)

saveCSV(IHL\_Array,'csv/Daily'+month\_words+year,'Day',previous\_date)

saveCSV(IHL\_Array,'csv/Monthly'+year,'Month',previous\_date)

saveCSV(IHL\_Array,'csv/Yearly','Year',previous\_date)

2. In order for the HTML graphs to work on localhost, which means no internet access, change the script dependencies to the dimple and d3 libraries in the local directory:

Eg: Change

<script src="https://cdnjs.cloudflare.com/ajax/libs/d3/3.5.5/d3.min.js"></script>

<script src="http://dimplejs.org/dist/dimple.v2.1.3.min.js"></script>

To:

<script src=" d3.min.js"></script>

<script src=" dimple.v2.1.3.min.js"></script>

3. To include a new IHL into the log processing system:

* Save the ip addresses and server name of the IHL in ihlconfig.json file in this format:
  + "ihl":{ "ip": [\*list of ip addresses\*],

"server": [\*list of server names eg IHL\_IdP\_SP\*] }

* This will automatically include the new IHL into the convert.py and the CreateHTML.py program to generate the eduroam statistics.