Wifimon - crowdsourced performance measurement

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Last 400 Days

median rtt: 3.6 ms avg 16.7 ms max 1.2 ms min 1.4 ms now 4.6 ms sd 789.2 m am/s
packet loss: 0.04 % avg 1.15 % max 0.00 % min 0.00 % now
loss color: ❼ 0 ❼ 1/20 ❼ 2/20 ❼ 3/20 ❼ 4/20 ❼ 10/20 ❼ 19/20
probe: 20 ICMP Echo Pings (56 Bytes) every 300s
end: Thu Nov  5 14:54:26 2015
Step 1: Rip off Geoff Huston
Performance per Access Point
<table>
<thead>
<tr>
<th>What we need</th>
<th>Javascript</th>
<th>RADIUS/DHCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timestamp</td>
<td>Timestamp</td>
<td>Timestamp</td>
</tr>
<tr>
<td>Performance result</td>
<td>Performance result</td>
<td>ID of access point</td>
</tr>
<tr>
<td>ID of access point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP address</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How to try this?
Latency (ms)

40 ms
Round trip to server
How to build this?
Relational Database → Analytics engine → Query & report generation → UI front end

Syslog → RADIUS Accounting → L2/L3 address binding (IPv6) → DHCP logs → Browser/app perf tests

Wifi APs/controller → Mobile clients

Relational Database → Analytics engine → Query & report generation

Syslog → RADIUS Accounting

L2/L3 address binding (IPv6) → DHCP logs

Browser/app perf tests → Mobile clients

UI front end
Dublin City University
<table>
<thead>
<tr>
<th>Id</th>
<th>Test Date/Time (UTC)</th>
<th>Username</th>
<th>Download Rate (KB/s)</th>
<th>Upload Rate (KB/s)</th>
<th>Ping (ms)</th>
<th>Client IP Address</th>
<th>Client IP (Logs)</th>
<th>Client MAC Address</th>
<th>AP IP Address</th>
<th>AP MAC Address</th>
<th>NAS Port Type</th>
<th>User Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>376</td>
<td>2016-05-23 09:27:43.839</td>
<td>kokkinos</td>
<td>9018.0</td>
<td>4312.0</td>
<td>4.5</td>
<td>150.140.141.20</td>
<td>150.140.141.20</td>
<td>d7-e2-4e-1A</td>
<td>00-24-0c-28-7c-03-7A</td>
<td>Wireless-802.11a</td>
<td>Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.102 Safari/537.36</td>
<td></td>
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<tr>
<td>375</td>
<td>2016-05-19 10:34:34.892</td>
<td>kokkinos</td>
<td>8815.0</td>
<td>4532.0</td>
<td>5.5</td>
<td>150.140.141.20</td>
<td>150.140.141.20</td>
<td>d7-e2-4e-1A</td>
<td>00-24-0c-28-7c-03-7A</td>
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<td></td>
</tr>
</tbody>
</table>
Throughput

2016-02-19 10:16:13

Download: 34.75 Mbps
Upload: 26.14 Mbps

<table>
<thead>
<tr>
<th></th>
<th>min</th>
<th>max</th>
<th>avg</th>
<th>current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Download</td>
<td>32.76 Mbps</td>
<td>50.79 Mbps</td>
<td>41.86 Mbps</td>
<td>44.64 Mbps</td>
</tr>
<tr>
<td>Upload</td>
<td>20.31 Mbps</td>
<td>41.39 Mbps</td>
<td>31.22 Mbps</td>
<td>20.31 Mbps</td>
</tr>
</tbody>
</table>
Scripts

Cookies

Logs

NAT
Privacy
Runnable code

Mailing list

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