Nick Boudreau

CSC441

Lab 1

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Part 1.1: Route Trace between home network and LTTstore.com (Canadian based website)

1. Average and Standard Deviation at times of 10 AM, 2 PM, and 7PM
   1. Averages:
      1. 10 AM - 1013.6 ms
      2. 2 PM - 179.8 ms
      3. 7 PM - 139.4 ms
   2. Standard Deviations
      1. 10 AM - ~230 ms between each point on average
      2. 2 PM - ~6.5 ms between each point on average
      3. 7 PM - ~4.3 ms between each point on average
2. At 10 AM the route took 15 routing points. While the other two time slots both had 10 routing spots. There was a change, but the 10AM time was taken on a wireless school network versus a personal network.
3. While the IP was protected, there were a clear 4 ISP jumps when it came to this location. The time took a significant jump between the 2nd and 3rd ISPs. This seems to be consistent with when it crossed country lines.

Part 1.2 Route Trace between home network and koreantimes.co.kr (Korea based site)

1. Average and Standard Deviation at times of 10 AM, 2 PM, and 7PM
   1. Averages:
      1. 10 AM - 1908.4 ms
      2. 2 PM - 1097.4ms
      3. 7 PM - 2160.5 ms
   2. Standard Deviations
      1. 10 AM - ~228.7 ms between each point on average
      2. 2 PM - ~7.9 ms between each point on average
      3. 7 PM - ~16.4 ms between each point on average
2. At 10 AM the were 21 router points, at 2 PM there were 17 router points, and at 7 PM there were 22 routing points. So, there was not a consistent amount across each time, but they were all consistently higher than all the attempts taken at the same continent.
3. At 10 AM there were 6 ISP changes, 2 PM there were 5 distinct ISP changes, and at 7 PM there was 5 ISP changes as well. All the routes had a significant delay jump at the around the 13th router or the 4th ISP of around 100 or more ms. This we can assume is during the continent change.