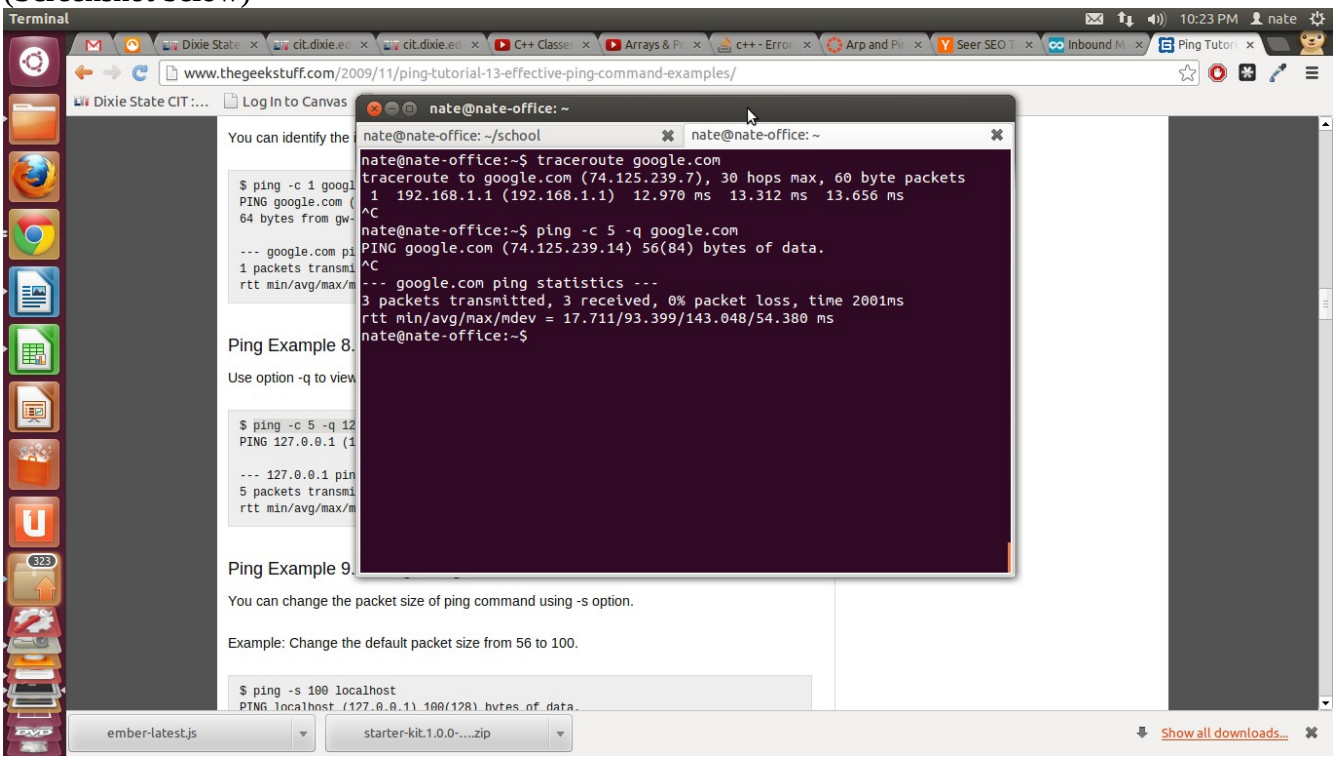
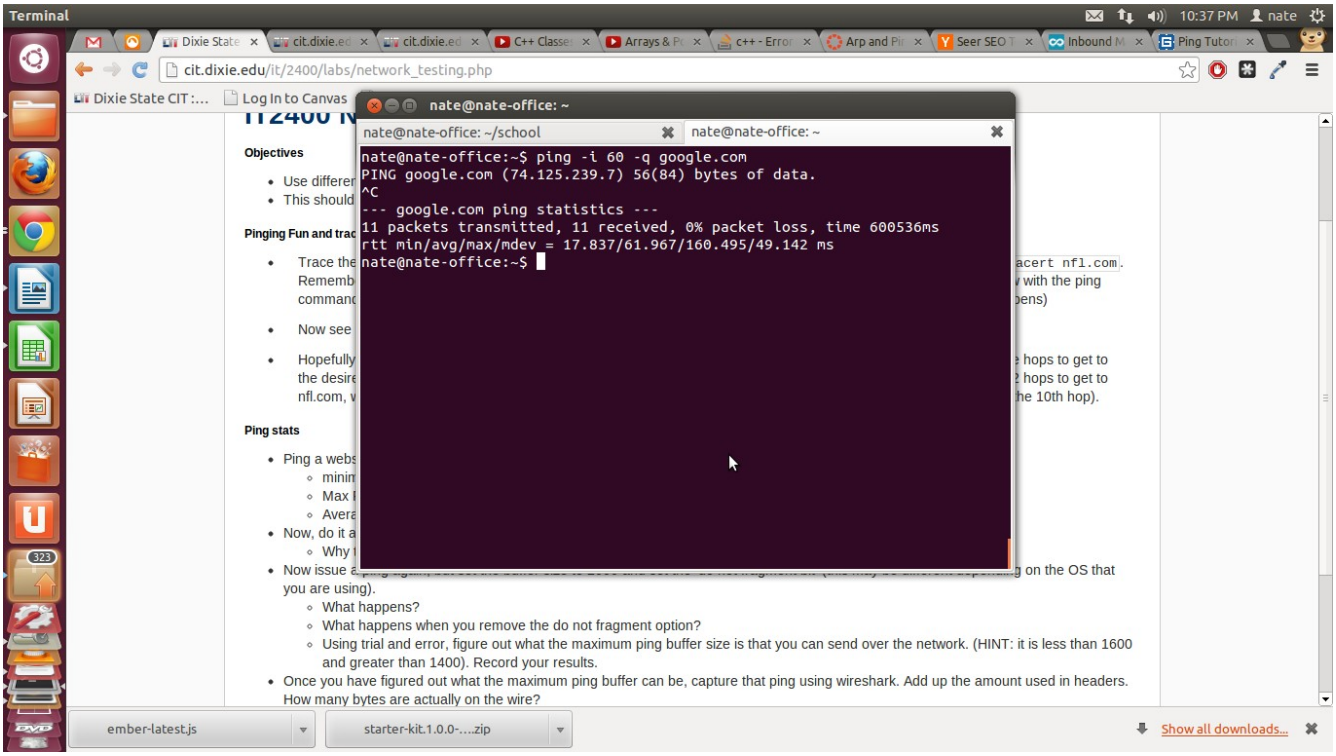
Nate Armstrong
IT 2400 W, 5:30pm
Arp and Ping

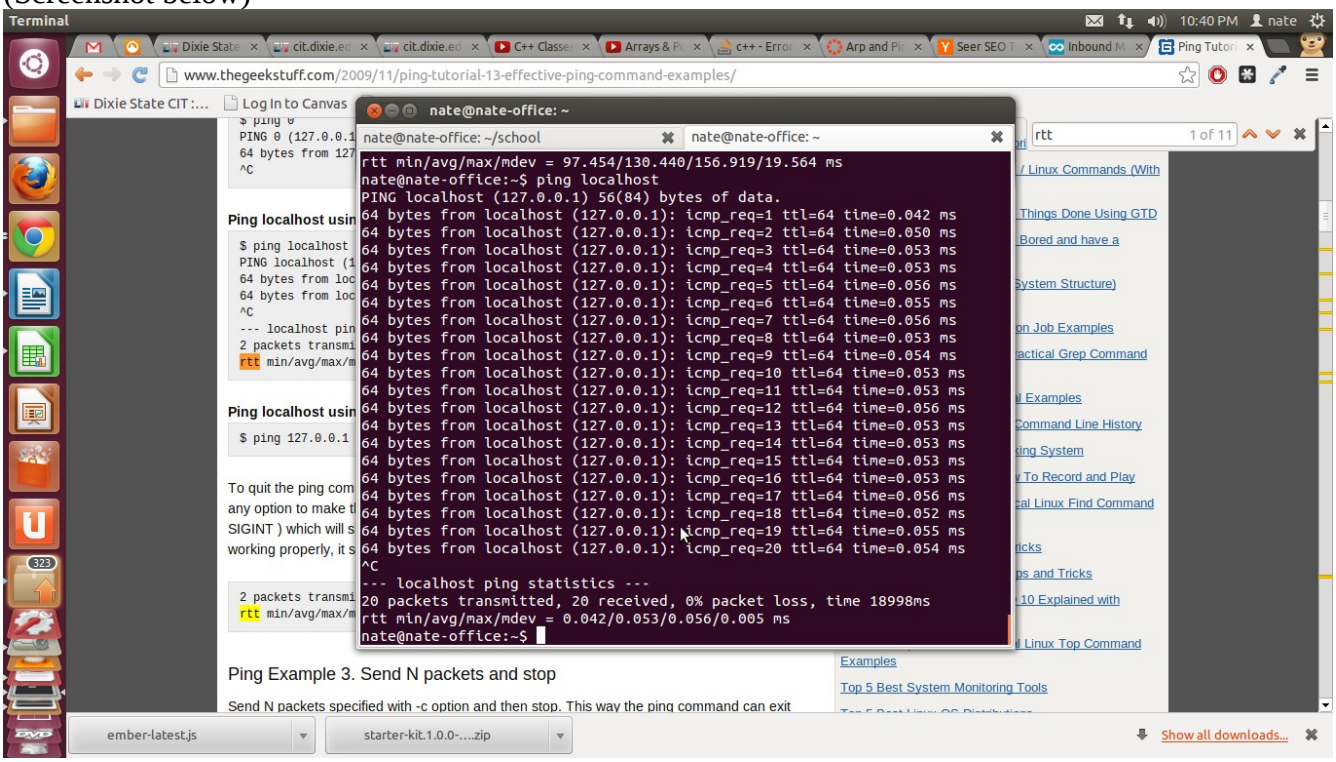
When I did a *traceroute* 'google.com' from the terminal, it returned 30 hops. A *ping* for the 'google.com' returned 56 hops.
(Screenshot below)



When I tried to ping it with more hops 56, it sent me into an infinite loop which means it was a bad request, as expected.
(Screenshot below)

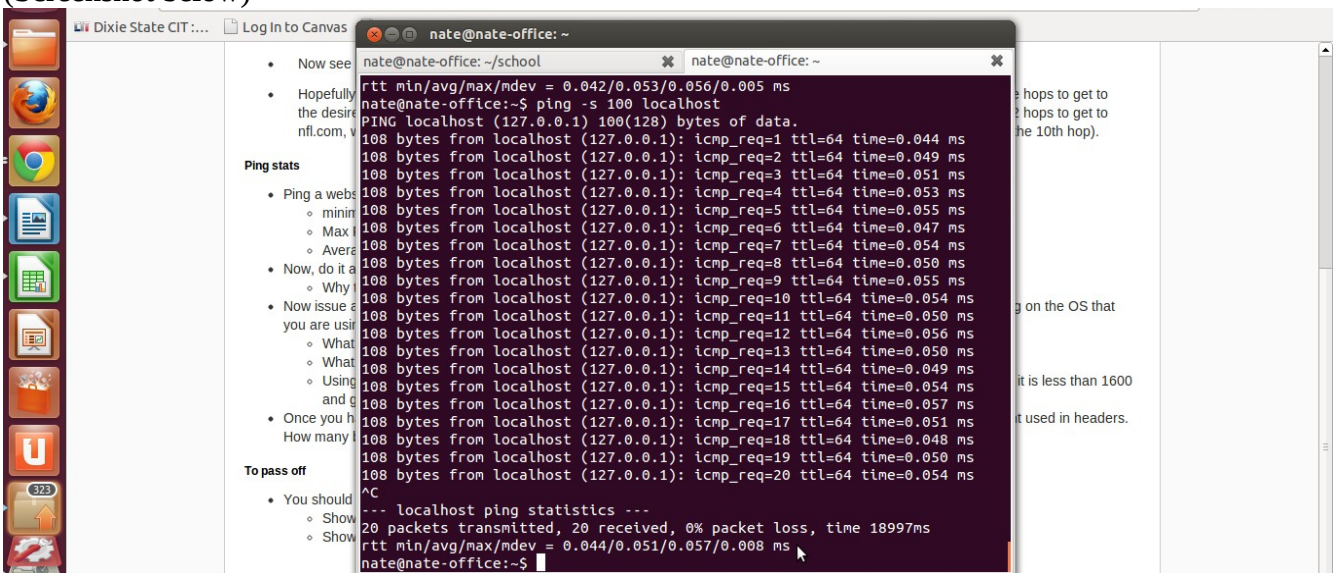


I pinged localhost 20 times and the rtt info was as follows:
rtt min/avg/max/mdev = 0.042/0.053/0.056/0.005 ms
(Screenshot below)

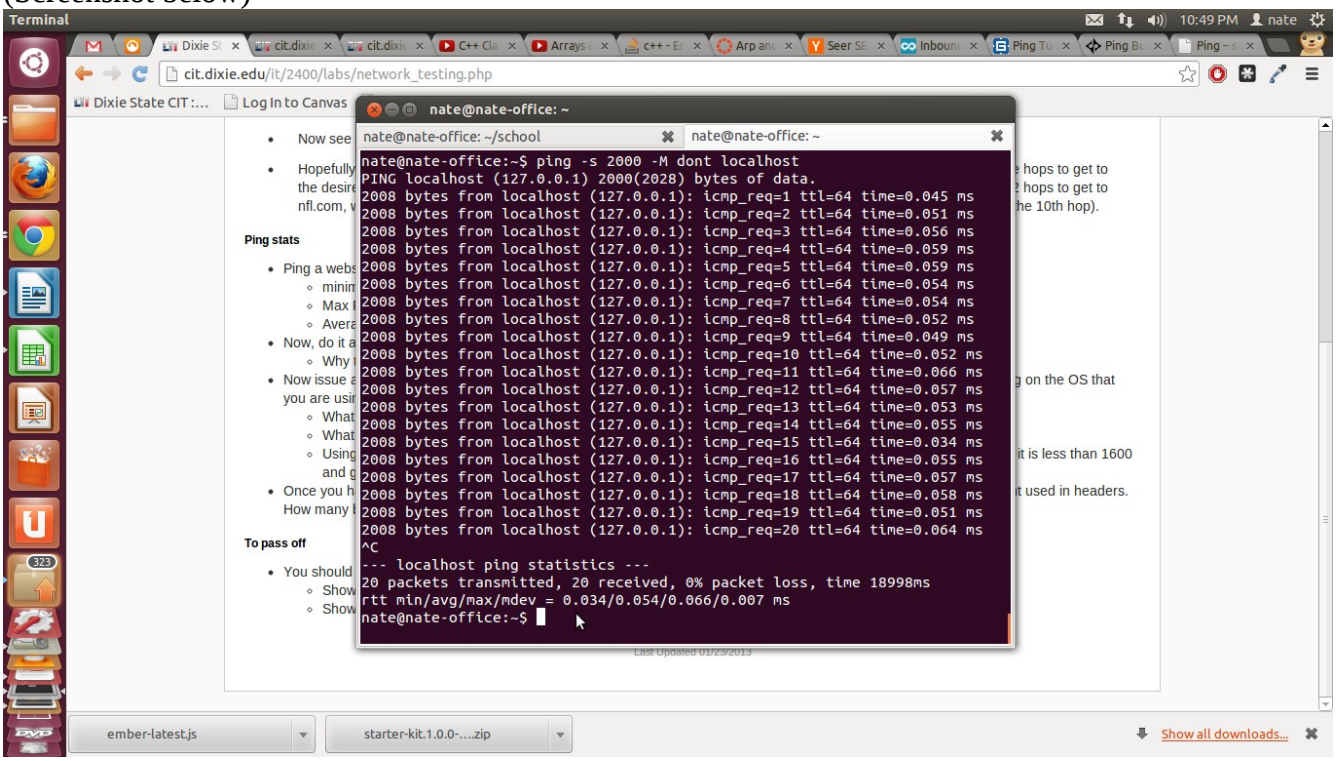


Increased the buffer size to 100 and got the following rtt results:
rtt min/avg/max/mdev = 0.044/0.051/0.057/0.008 ms

Each ping took longer than before probably because the buffer was bigger.
(Screenshot below)



With the 'dont fragment' bit set, the rtt results were:
rtt min/avg/max/mdev = 0.034/0.054/0.066/0.007 ms
Nothing crazy happened, results were between the two results above.
(Screenshot below)



When I didn't set the 'don't defrag' bit it still worked but took longer than any of the other tests but I did read that the maximum buffer is 65,535 bytes.

Couldn't get Wireshark to capture on my home machine.. Not sure how to run it on Ubuntu.