**Homework Assignment Week 1:**

**Investigators Name:** Matt Ferry

**Date of Investigation:** September 3, 2013

**Requested Information:**

This particular packet set appears to be that of a ping test to devry.edu and the responses from the server. I see the indications of the ping test, not only the Echo (ping) section of packet, but also in the fact that the protocol after the DNS lookup was that of ICMP, which in my experience is most commonly used in Ping and Traceroute tests used to troubleshoot network connectivity. If this had been a traceroute I would have expected to see more IP addresses than those that are listed here.

Below is a table that contains the requested information of the homework assignment with the transaction number, date and time , protocol, IP’s Utilized and MAC address of the the PC that generated the request.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Transaction No.**  | **Date and Time** | **Protocol** | **IP's Utilizied**  | **MAC address of PC** |
| 1 | 6/7/2012 18:45:26.318 | DNS | 192.168.2.10 (PC) | 00:21:6a:62:78:60 |
|   |   |   | 192.168.2.1 (PC Gateway) | 00:11:50:1b:8e:20 |
| 2 | 6/7/2012 18:45:26.351 | DNS | 192.168.2.10 (PC) | 00:21:6a:62:78:60 |
|   |  |  | 192.168.2.1 (PC Gateway) |   |
|   |  |  | DNS Query Answers: |   |
|   |  |  | devry.edu: type A, class IN, addr 207.97.255.171 |   |
|   |  |  | adns4.devry.net: type A, class IN, addr 206.209.104.52 |   |
|   |  |  | adns3.devry.net: type A, class IN, addr 206.209.104.51 |   |
|   |   |   | adns2.devry.net: type A, class IN, addr 206.209.110.52 |   |
| 3 | 6/7/2012 18:45:26.353 | ICMP | 192.168.2.10 | 00:21:6a:62:78:60 |
|   |   |   | 207.97.255.171 |   |
| 4 | 6/7/2012 18:45:26.390 | ICMP | 207.97.255.171 |   |
|   |   |   | 192.168.2.10 | 00:21:6a:62:78:60 |
| 5 | 6/7/2012 18:45:27.354 | ICMP | 192.168.2.10 | 00:21:6a:62:78:60 |
|   |   |   | 207.97.255.171 |   |
| 6 | 6/7/2012 18:45:27.386 | ICMP | 207.97.255.171 |   |
|   |   |   | 192.168.2.10 | 00:21:6a:62:78:60 |
| 7 | 6/7/2012 18:45:28.355 | ICMP | 192.168.2.10 | 00:21:6a:62:78:60 |
|   |   |   | 207.97.255.171 |   |
| 8 | 6/7/2012 18:45:28.388 | ICMP | 207.97.255.171 |   |
|   |   |   | 192.168.2.10 | 00:21:6a:62:78:60 |
| 9 | 6/7/2012 18:45:29.356 | ICMP | 192.168.2.10 | 00:21:6a:62:78:60 |
|   |   |   | 207.97.255.171 |   |
| 10 | 6/7/2012 18:45:29.391 | ICMP | 207.97.255.171 |   |
|   |   |   | 192.168.2.10 | 00:21:6a:62:78:60 |