Assignment-01

Topic: Find IP Address of targeted website, Frame length, Find out hops.

Course Code: SWE426

Course Name: Distributive Computing and Networking Security with Lab

Submitted to

Samia Nasrin
Lecturer
Department of Software Engineering
Daffodil International University (DIU)

Submitted by

Md. Rasheduzzaman Rashed
Section: "A" ID: 153-35-1305
Department of Software Engineering
Daffodil International University (DIU)

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i.   Find IP Address of targeted website. [Ex: google.com]

```
Select C:\WINDOWS\system32\cmd.exe                                    —    □    ×

C:\Users\mrzra>ping google.com

Pinging google.com [172.217.194.100] with 32 bytes of data:
Reply from 172.217.194.100: bytes=32 time=58ms TTL=43
Reply from 172.217.194.100: bytes=32 time=58ms TTL=43
Reply from 172.217.194.100: bytes=32 time=57ms TTL=43
Reply from 172.217.194.100: bytes=32 time=57ms TTL=43

Ping statistics for 172.217.194.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 57ms, Maximum = 58ms, Average = 57ms

C:\Users\mrzra>
```

ii.   Frame length. [Ex: google.com]

```
C:\WINDOWS\system32\cmd.exe                                           —    □    ×
Approximate round trip times in milli-seconds:
    Minimum = 50ms, Maximum = 51ms, Average = 50ms

C:\Users\mrzra>ping google.com -f -l 1453

Pinging google.com [74.125.68.113] with 1453 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.

Ping statistics for 74.125.68.113:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\mrzra>ping google.com -f -l 1452

Pinging google.com [74.125.68.113] with 1452 bytes of data:
Reply from 74.125.68.113: bytes=64 (sent 1452) time=50ms TTL=43
Reply from 74.125.68.113: bytes=64 (sent 1452) time=50ms TTL=43
Reply from 74.125.68.113: bytes=64 (sent 1452) time=50ms TTL=43
Reply from 74.125.68.113: bytes=64 (sent 1452) time=50ms TTL=43

Ping statistics for 74.125.68.113:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 50ms, Maximum = 50ms, Average = 50ms

C:\Users\mrzra>
```

iii.   Find out hops. [Ex: google.com]

```
C:\WINDOWS\system32\cmd.exe - tracert google.com                              —    □    ×

C:\Users\mrzra>tracert google.com

Tracing route to google.com [172.217.194.138]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  XiaoQiang [192.168.31.1]
  2     1 ms     1 ms     1 ms  access-router-hq-02.dotinternetbd.com [59.153.100.17]
  3     1 ms     1 ms    <1 ms  172.16.16.61
  4     *        *        *     Request timed out.
  5     2 ms     1 ms     1 ms  103.110.96.69
  6     2 ms     2 ms     2 ms  103-16-155-41-noc.bsccl.com [103.16.155.41]
  7     2 ms     1 ms     2 ms  103-16-152-29-noc.bsccl.com [103.16.152.29]
  8    49 ms    48 ms    56 ms  163.47.80-74-noc.bsccl.com [163.47.80.74]
  9    54 ms    54 ms    54 ms  74.125.242.34
 10    49 ms    49 ms    49 ms  72.14.234.96
 11    55 ms    69 ms    54 ms  209.85.243.180
 12    54 ms    55 ms    54 ms  66.249.95.23
 13     *        *        *     Request timed out.
 14     *        *        *     Request timed out.
 15     *        *        *     Request timed out.
 16     *        *        *     Request timed out.
 17     *        *        *     Request timed out.
 18     *        *        *     Request timed out.
 19     *        *        *     Request timed out.
 20     *        *        *     Request timed out.
 21     *
```