Practical Work 1

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- Check if usth.edu.vn is up or not with ping (5 times only)

```
Linhs-MacBook-Pro:network2018 linhtynny$ ping usth.edu.vn
PING usth.edu.vn (104.27.160.15): 56 data bytes
64 bytes from 104.27.160.15: icmp_seq=0 ttl=54 time=24.501 ms
64 bytes from 104.27.160.15: icmp_seq=1 ttl=54 time=28.594 ms
64 bytes from 104.27.160.15: icmp_seq=2 ttl=54 time=34.340 ms
64 bytes from 104.27.160.15: icmp_seq=3 ttl=54 time=35.722 ms
64 bytes from 104.27.160.15: icmp_seq=4 ttl=54 time=48.664 ms
64 bytes from 104.27.160.15: icmp_seq=5 ttl=54 time=33.391 ms
^C
--- usth.edu.vn ping statistics ---
6 packets transmitted, 6 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 24.501/34.202/48.664/7.502 ms
```

- Use traceroute tool to find the route from VPS to usth.edu.vn

```
traceroute to usth.edu.vn (104.27.161.15), 30 hops max, 60 byte packets
 1  192.168.0.1 (192.168.0.1)  0.907 ms  0.899 ms  0.888 ms
 2  ci96.120-46.netnam.vn (101.96.120.46)  2.136 ms  2.137 ms  2.126 ms
 3  static.netnam.vn (119.17.219.78)  2.449 ms static.netnam.vn (119.17.219.74)  2.472
 4  static.netnam.vn (119.17.219.13)  2.422 ms  2.413 ms static.netnam.vn (119.17.219.1
 5  static.netnam.vn (119.17.219.10)  2.416 ms static.netnam.vn (119.17.219.14)  2.788
 6  static.netnam.vn (119.17.219.17)  2.409 ms localhost (27.68.229.9)  71.159 ms local
 7  localhost (27.68.240.94)  35.435 ms localhost (27.68.240.54)  73.691 ms 203.113.156
 8  localhost (27.68.229.49)  35.725 ms localhost (27.68.229.9)  38.962 ms  37.742 ms
 9  104.27.161.15 (104.27.161.15)  26.222 ms  23.185 ms localhost (27.68.240.62)  69.24

linhdown@frontend:~$ traceroute usth.edu.vn
traceroute to usth.edu.vn (104.27.161.15), 30 hops max, 60 byte packets
 1  192.168.0.1 (192.168.0.1)  0.907 ms  0.899 ms  0.888 ms
 2  ci96.120-46.netnam.vn (101.96.120.46)  2.136 ms  2.137 ms  2.126 ms
 3  static.netnam.vn (119.17.219.78)  2.449 ms static.netnam.vn (119.17.219.74)  2.472
 4  static.netnam.vn (119.17.219.13)  2.422 ms  2.413 ms static.netnam.vn (119.17.219.1
```

```
5  static.netnam.vn (119.17.219.10)  2.416 ms static.netnam.vn (119.17.219.14)  2.788
6  static.netnam.vn (119.17.219.17)  2.409 ms localhost (27.68.229.9)  71.159 ms local
7  localhost (27.68.240.94)  35.435 ms localhost (27.68.240.54)  73.691 ms 203.113.156
8  localhost (27.68.229.49)  35.725 ms localhost (27.68.229.9)  38.962 ms  37.742 ms
9  104.27.161.15 (104.27.161.15)  26.222 ms  23.185 ms localhost (27.68.240.62)  69.24
```

- Use traceroute tool to find the route from laptop to usth.edu.vn

```
Linhs-MacBook-Pro:network2018 linhtynny$ traceroute usth.edu.vn
traceroute: Warning: usth.edu.vn has multiple addresses; using 104.27.160.15
traceroute to usth.edu.vn (104.27.160.15), 64 hops max, 52 byte packets
 1  192.168.10.10 (192.168.10.10)  3.641 ms  5.830 ms  2.002 ms
 2  ci96.120-46.netnam.vn (101.96.120.46)  1.780 ms  2.679 ms  2.448 ms
 3  static.netnam.vn (119.17.219.78)  3.574 ms
    static.netnam.vn (119.17.219.74)  2.021 ms  2.858 ms
 4  static.netnam.vn (119.17.219.17)  1.820 ms
    static.netnam.vn (119.17.219.13)  2.103 ms  1.763 ms
 5  203.113.156.25 (203.113.156.25)  6.639 ms  19.716 ms
    static.netnam.vn (119.17.219.10)  13.144 ms
 6  static.netnam.vn (119.17.219.21)  12.000 ms *  232.843 ms
 7  localhost (27.68.240.54)  204.041 ms
    localhost (27.68.240.250)  311.341 ms *
 8  13335.hkg.equinix.com (119.27.63.48)  41.231 ms *  40.949 ms
 9  * 104.27.160.15 (104.27.160.15)  30.550 ms
    localhost (27.68.240.54)  70.456 ms
```