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

```
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 ms
2.527 ms
 4  static.netnam.vn (119.17.219.13)  2.422 ms  2.413 ms static.netnam.vn (119.17.219.17)
2.403 ms
 5  static.netnam.vn (119.17.219.10)  2.416 ms static.netnam.vn (119.17.219.14)  2.788 ms
203.113.156.25 (203.113.156.25)  2.793 ms
[ 6  static.netnam.vn (119.17.219.17)  2.409 ms localhost (27.68.229.9)  71.159 ms localhos]
t (27.68.229.49)  52.715 ms
 7  localhost (27.68.240.94)  35.435 ms localhost (27.68.240.54)  73.691 ms 203.113.156.25
(203.113.156.25)  2.197 ms
 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)  69.241 m
s
linhdown@frontend:~$ █
```

- 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)  248.368 ms  27.982 ms  27.670 ms
  2  * ci96.120-46.netnam.vn (101.96.120.46)  255.783 ms  109.009 ms
  3  static.netnam.vn (119.17.219.78)  25.880 ms
     static.netnam.vn (119.17.219.74)  4.121 ms  6.146 ms
  4  static.netnam.vn (119.17.219.13)  6.567 ms
     static.netnam.vn (119.17.219.17)  14.114 ms  2.546 ms
  5  203.113.156.25 (203.113.156.25)  2.541 ms
     static.netnam.vn (119.17.219.14)  41.367 ms
     203.113.156.25 (203.113.156.25)  53.982 ms
  6  * static.netnam.vn (119.17.219.21)  62.546 ms
     localhost (27.68.229.49)  91.896 ms
  7  localhost (27.68.240.250)  140.506 ms
     203.113.156.25 (203.113.156.25)  80.332 ms  102.115 ms
  8  13335.hkg.equinix.com (119.27.63.48)  60.565 ms  50.537 ms  24.698 ms
  9  localhost (27.68.240.62)  244.389 ms
     104.27.160.15 (104.27.160.15)  27.539 ms
     localhost (27.68.240.98)  799.436 ms
[Linhs-MacBook-Pro:network2018 linhtynny$ ping usth.edu.vn
```