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CNET 124-005

Lab 1 (Mapping the internet)

Q1) ping [www.cisco.com](http://www.cisco.com)

```
C:\Users\PC>ping www.cisco.com

Pinging e144.dscc.akamaiedge.net [96.7.200.170] with 32 bytes of data:
Reply from 96.7.200.170: bytes=32 time=17ms TTL=56
Reply from 96.7.200.170: bytes=32 time=17ms TTL=56
Reply from 96.7.200.170: bytes=32 time=22ms TTL=56
Reply from 96.7.200.170: bytes=32 time=18ms TTL=56

Ping statistics for 96.7.200.170:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 17ms, Maximum = 22ms, Average = 18ms

C:\Users\PC>
```

ping -n 100 [www.cisco.com](http://www.cisco.com)

```
C:\Users\PC>ping -n 100 www.cisco.com

Pinging e144.dscc.akamaiedge.net [96.7.200.170] with 32 bytes of data:

Ping statistics for 96.7.200.170:
    Packets: Sent = 100, Received = 100, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 17ms, Maximum = 43ms, Average = 19ms
```

Regional ping list

ping [www.afrinic.net](http://www.afrinic.net)

```
C:\Users\PC>ping www.afrinic.net

Pinging www.afrinic.net [196.216.2.6] with 32 bytes of data:
Reply from 196.216.2.6: bytes=32 time=278ms TTL=47
Reply from 196.216.2.6: bytes=32 time=276ms TTL=47
Reply from 196.216.2.6: bytes=32 time=277ms TTL=47
Reply from 196.216.2.6: bytes=32 time=277ms TTL=47

Ping statistics for 196.216.2.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 276ms, Maximum = 278ms, Average = 277ms

C:\Users\PC>
```

ping [www.apnic.net](http://www.apnic.net)

```
C:\Users\PC>ping www.apnic.net

Pinging www.apnic.net.cdn.cloudflare.net [104.20.60.194] with 32 bytes of data:
Reply from 104.20.60.194: bytes=32 time=42ms TTL=55
Reply from 104.20.60.194: bytes=32 time=32ms TTL=55
Reply from 104.20.60.194: bytes=32 time=34ms TTL=55
Reply from 104.20.60.194: bytes=32 time=32ms TTL=55

Ping statistics for 104.20.60.194:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 32ms, Maximum = 42ms, Average = 35ms

C:\Users\PC>
```

ping [www.ripe.net](http://www.ripe.net)

```
C:\Users\PC>ping www.ripe.net

Pinging www.ripe.net [193.0.6.139] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 193.0.6.139:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\PC>
```

ping [www.lacnic.net](http://www.lacnic.net)

```
C:\Users\PC>ping www.lacnic.net

Pinging www.lacnic.net [200.3.14.147] with 32 bytes of data:
Reply from 200.3.14.147: bytes=32 time=179ms TTL=43
Reply from 200.3.14.147: bytes=32 time=179ms TTL=43
Reply from 200.3.14.147: bytes=32 time=179ms TTL=43
Request timed out.

Ping statistics for 200.3.14.147:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 179ms, Maximum = 179ms, Average = 179ms

C:\Users\PC>
```



## Q2) Trace a route to a remote server using tracert

tracert [www.cisco.com](http://www.cisco.com)

```
C:\Users\NPC>tracert www.cisco.com

Tracing route to e144.dscb.akamaiedge.net [96.7.200.170]
over a maximum of 30 hops:

  0  1  20 ms  4 ms  1 ms  mynetwork [192.168.2.1]
  1  27 ms  53 ms  21 ms  10.11.2.25
  2  *  33 ms  28 ms  10.178.206.82
  3  33 ms  29 ms  28 ms  10.178.206.83
  4  29 ms  31 ms  27 ms  tcore3-toronto21_2-4-0-1.net.bell.ca [64.230.104.248]
  5  21 ms  29 ms  21 ms  tcore3-torontoxn_hundredgige0-12-0-0.net.bell.ca [64.230.50.111]
  6  *  29 ms  21 ms  bx3-torontoxn_hundredgige0-1-0-0.net.bell.ca [64.230.97.145]
  7  39 ms  31 ms  35 ms  akamai_bx3-torontoxn [184.150.181.145]
  8  37 ms  28 ms  32 ms  a96-7-200-170.deploy.akamaitechnologies.com [96.7.200.170]

Trace complete.

C:\Users\NPC>
```

tracert [www.afrinic.net](http://www.afrinic.net)

```
C:\Users\NPC>tracert www.afrinic.net

Tracing route to www.afrinic.net [196.216.2.6]
over a maximum of 30 hops:

  0  1  20 ms  4 ms  1 ms  mynetwork [192.168.2.1]
  1  22 ms  29 ms  72 ms  10.11.2.25
  2  *  17 ms  19 ms  10.178.206.82
  3  20 ms  25 ms  18 ms  10.178.206.83
  4  20 ms  21 ms  22 ms  tcore3-toronto21_2-4-0-1.net.bell.ca [64.230.104.248]
  5  22 ms  21 ms  22 ms  tcore3-torontoxn_hundredgige0-12-0-0.net.bell.ca [64.230.50.111]
  6  20 ms  18 ms  18 ms  bx1-torontoxn_et1-0-0.net.bell.ca [64.230.97.157]
  7  19 ms  20 ms  18 ms  xe-8-1-0.edge1.toronto2.Level3.net [4.59.181.1]
  8  100 ms  100 ms  99 ms  ae-118-3504.edge3.London1.Level3.net [4.69.166.142]
  9  102 ms  102 ms  102 ms  INTERNET-S0.edge3.London1.Level3.net [195.50.124.34]
 10  272 ms  282 ms  274 ms  core2b-pk1-pos-0-0-5-0.ip.isnet.net [168.209.201.66]
 11  273 ms  273 ms  271 ms  196.26.0.69
 12  274 ms  272 ms  272 ms  196.37.155.180
 13  274 ms  273 ms  278 ms  196.216.3.164
 14  272 ms  276 ms  276 ms  www.afrinic.net [196.216.2.6]
 15  278 ms  276 ms  276 ms  www.afrinic.net [196.216.2.6]

Trace complete.

C:\Users\NPC>
```

tracert [www.lacnic.net](http://www.lacnic.net)

```
C:\Users\NPC>tracert www.lacnic.net

Tracing route to www.lacnic.net [200.3.14.147]
over a maximum of 30 hops:

  0  1  2 ms  3 ms  6 ms  mynetwork [192.168.2.1]
  1  32 ms  40 ms  23 ms  10.11.2.25
  2  *  18 ms  18 ms  10.178.206.82
  3  24 ms  19 ms  18 ms  10.178.206.83
  4  27 ms  28 ms  28 ms  tcore3-toronto21_2-4-0-1.net.bell.ca [64.230.104.248]
  5  34 ms  29 ms  30 ms  tcore3-chicagocorp_hundredgige0-8-0-0.net.bell.ca [64.230.79.161]
  6  29 ms  31 ms  30 ms  bx6-chicagodt_0-6-0-0.net.bell.ca [64.230.79.85]
  7  29 ms  29 ms  31 ms  highwinds_bx6-chicagodt [184.150.181.115]
  8  30 ms  30 ms  30 ms  209.197.20.33
  9  49 ms  48 ms  48 ms  1-1.r2.ny.hwng.net [209.197.0.91]
 10  50 ms  51 ms  47 ms  209.197.17.5
 11  183 ms  185 ms  186 ms  e1-2.r1.sp.hwng.net [209.197.0.222]
 12  180 ms  166 ms  171 ms  unknown.hwng.net [209.197.24.147]
 13  178 ms  177 ms  178 ms  xe-5-0-1-0.core1.jd.registro.br [200.160.0.178]
 14  178 ms  178 ms  178 ms  ae0-0.ar3.nu.registro.br [200.160.0.249]
 15  178 ms  180 ms  183 ms  gw02.lacnic.registro.br [200.160.0.213]
 16  179 ms  178 ms  179 ms  200.3.12.36
 17  178 ms  179 ms  178 ms  www.lacnic.net [200.3.14.147]
 18  178 ms  179 ms  178 ms  www.lacnic.net [200.3.14.147]

Trace complete.

C:\Users\NPC>
```