

Sample Traceroute Number 1

```
Utility-MacBook-Pro-2:~ utility.terminal$ traceroute mn.gov
traceroute to mn.gov (151.111.166.96), 64 hops max, 52 byte packets
 1  172.20.10.1 (172.20.10.1)  12.425 ms  3.350 ms  6.213 ms
 2  145.sub-66-174-43.myvzw.com (66.174.43.145)  26.631 ms  40.324 ms  40.675 ms
 3  * * *
 4  * * *
 5  66.sub-69-83-106.myvzw.com (69.83.106.66)  30.555 ms  39.205 ms  37.682 ms
 6  2.sub-69-83-107.myvzw.com (69.83.107.2)  43.988 ms  56.046 ms  42.363 ms
 7  112.sub-69-83-96.myvzw.com (69.83.96.112)  41.794 ms  41.430 ms  35.746 ms
 8  112.sub-69-83-96.myvzw.com (69.83.96.112)  42.953 ms  38.138 ms  42.196 ms
 9  69.sub-69-83-96.myvzw.com (69.83.96.69)  44.018 ms  30.033 ms  39.751 ms
10  et-1-1-2.gw18.dfw9.alter.net (157.130.131.9)  43.799 ms  35.627 ms  39.922 ms
11  0.ae2.br2.dfw13.alter.net (140.222.225.53)  51.152 ms  30.254 ms  36.873 ms
12  204.255.168.86 (204.255.168.86)  44.409 ms  51.466 ms  37.000 ms
13  100ge12-2.core1.mci3.he.net (184.105.81.205)  63.150 ms  56.641 ms  99.176 ms
14  100ge9-2.core1.oma1.he.net (184.105.65.166)  75.198 ms  70.784 ms  70.696 ms
15  100ge8-1.core1.blp1.he.net (184.105.65.98)  56.083 ms  76.536 ms  66.909 ms
16  100ge8-2.core1.msp1.he.net (184.105.64.97)  60.362 ms  59.210 ms  61.161 ms
17  wiscnet.10gigabitethernet1-3.core1.msp1.he.net (184.105.19.10)  64.091 ms  66.657 ms  168.001 ms
18  statecob-gr-01-1-hu-0-7-0-0.1.northernlights.gigapop.net (146.57.252.206)  107.596 ms  86.638 ms  70.156 ms
19  cobn9-thor-bundle-ether10.3005.northernlights.gigapop.net (146.57.252.181)  62.039 ms  61.400 ms  70.619 ms
20  207.171.116.114 (207.171.116.114)  61.972 ms  55.752 ms  60.531 ms
21  edc1core-sh-port-channel12-30.r.state.mn.us (207.171.89.217)  72.994 ms  89.439 ms  52.216 ms
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Sample Traceroute Number 2

```
Utility-MacBook-Pro-2:~ utility.terminal$ traceroute pandora.com
traceroute: Warning: pandora.com has multiple addresses; using 208.85.40.50
traceroute to pandora.com (208.85.40.50), 64 hops max, 52 byte packets
 1  172.20.10.1 (172.20.10.1)  3.319 ms  4.560 ms  2.846 ms
 2  145.sub-66-174-43.myvzw.com (66.174.43.145)  35.159 ms  32.898 ms  80.405 ms
 3  * * *
 4  * * *
 5  66.sub-69-83-106.myvzw.com (69.83.106.66)  41.560 ms  41.179 ms  39.691 ms
 6  2.sub-69-83-107.myvzw.com (69.83.107.2)  39.707 ms  39.195 ms  40.208 ms
 7  112.sub-69-83-96.myvzw.com (69.83.96.112)  43.623 ms  40.046 ms  51.160 ms
 8  112.sub-69-83-96.myvzw.com (69.83.96.112)  46.978 ms  36.272 ms  39.971 ms
 9  69.sub-69-83-96.myvzw.com (69.83.96.69)  90.444 ms  31.140 ms  36.607 ms
10  et-1-1-2.gw18.dfw9.alter.net (157.130.131.9)  45.459 ms  36.339 ms  40.429 ms
11  0.et-11-1-0.gw7.dfw13.alter.net (140.222.234.227)  35.080 ms  43.918 ms  67.487 ms
12  be-203-pe01.1950stemmons.tx.ibone.comcast.net (66.208.229.169)  47.781 ms  49.374 ms  38.867 ms
13  be-12441-cr02.dallas.tx.ibone.comcast.net (68.86.89.205)  43.800 ms  39.285 ms  39.152 ms
14  be-12124-cr02.1601milehigh.co.ibone.comcast.net (68.86.84.229)  55.134 ms  60.736 ms  59.013 ms
15  be-12021-cr01.champa.co.ibone.comcast.net (68.86.84.225)  62.883 ms  67.879 ms  50.476 ms
16  be-11020-cr02.sunnyvale.ca.ibone.comcast.net (68.86.84.9)  82.197 ms  80.671 ms  118.241 ms
17  be-11083-pe02.529bryant.ca.ibone.comcast.net (68.86.84.14)  87.257 ms  75.289 ms  71.660 ms
18  as40428-1-c.529bryant.ca.ibone.comcast.net (75.149.229.170)  88.818 ms  77.446 ms  91.350 ms
19  www.pandora.com (208.85.40.50)  78.976 ms  89.662 ms  69.875 ms
```

Sample Traceroute Number 3

Utility-MacBook-Pro-2:~ utility.terminal\$ traceroute minecraft.com

traceroute to minecraft.com (110.232.140.74), 64 hops max, 52 byte packets

```
1 172.20.10.1 (172.20.10.1) 3.049 ms 2.705 ms 3.463 ms
2 145.sub-66-174-43.myvzw.com (66.174.43.145) 33.416 ms 40.319 ms 40.979 ms
3 * * *
4 * * *
5 66.sub-69-83-106.myvzw.com (69.83.106.66) 64.766 ms 40.407 ms 38.739 ms
6 2.sub-69-83-107.myvzw.com (69.83.107.2) 40.938 ms 46.412 ms 47.016 ms
7 112.sub-69-83-96.myvzw.com (69.83.96.112) 29.836 ms 40.314 ms 34.928 ms
8 112.sub-69-83-96.myvzw.com (69.83.96.112) 39.877 ms 39.460 ms 45.674 ms
9 69.sub-69-83-96.myvzw.com (69.83.96.69) 34.215 ms 37.180 ms 53.567 ms
10 et-1-1-2.gw18.dfw9.alter.net (157.130.131.9) 48.273 ms 43.341 ms 37.036 ms
11 0.ae1.br1.dfw13.alter.net (140.222.227.169) 38.829 ms 39.534 ms 58.936 ms
12 dap-brdr-05.inet.qwest.net (63.146.27.173) 42.012 ms 37.892 ms 38.742 ms
13 snj-edge-06.inet.qwest.net (67.14.34.206) 84.106 ms 66.329 ms 78.091 ms
14 65.123.13.174 (65.123.13.174) 79.619 ms 86.955 ms 102.040 ms
15 i-92.eqnx-core02.telstraglobal.net (202.84.247.18) 70.861 ms 67.331 ms 82.778 ms
16 i-48.sydo-core04.telstraglobal.net (202.84.247.38) 244.715 ms 220.579 ms 1007.460 ms
17 bundle-ether3.oxf-gw10.sydney.telstra.net (203.50.13.93) 879.610 ms 220.312 ms 341.785 ms
18 bundle-ether1.ken-core10.sydney.telstra.net (203.50.6.96) 221.742 ms 245.832 ms 253.631 ms
19 bundle-ether1.ken-edge902.sydney.telstra.net (203.50.11.97) 307.355 ms 305.381 ms 481.772 ms
20 ape2469218.lnk.telstra.net (120.151.79.66) 303.791 ms 481.885 ms 236.082 ms
21 fortygige0-0-1-3.bdr01-ipt-4edenpar-syd.au.superloop.com (103.200.13.98) 337.849 ms 234.117 ms 219.170 ms
22 27.122.113.133 (27.122.113.133) 212.010 ms 349.100 ms 311.120 ms
23 10ge-agg01.syd01.as45638.net.au (103.252.152.253) 245.100 ms 333.100 ms 295.191 ms
24 10ge-gw01.syd01.ventraip.net.au (103.252.152.129) 313.084 ms 231.351 ms 319.539 ms
25 bls2-2b-syd.hosting-services.net.au (110.232.140.74) 233.595 ms 214.567 ms 230.558 ms
```

Sample Traceroute Number 4

```
Utility-MacBook-Pro-2:~ utility.terminal$ traceroute tpic.com.tr
traceroute to tpic.com.tr (212.174.27.6), 64 hops max, 52 byte packets
 1  172.20.10.1 (172.20.10.1)  4.352 ms  3.563 ms  4.440 ms
 2  145.sub-66-174-43.myvzw.com (66.174.43.145)  84.794 ms  55.364 ms  76.713 ms
 3  * * *
 4  * * *
 5  66.sub-69-83-106.myvzw.com (69.83.106.66)  28.599 ms  38.169 ms  41.026 ms
 6  2.sub-69-83-107.myvzw.com (69.83.107.2)  52.555 ms  26.585 ms  41.100 ms
 7  112.sub-69-83-96.myvzw.com (69.83.96.112)  44.025 ms  41.817 ms  33.238 ms
 8  112.sub-69-83-96.myvzw.com (69.83.96.112)  46.014 ms  46.093 ms  32.239 ms
 9  69.sub-69-83-96.myvzw.com (69.83.96.69)  34.872 ms  39.315 ms  43.413 ms
10  et-1-1-2.gw18.dfw9.alter.net (157.130.131.9)  37.472 ms  40.064 ms  44.156 ms
11  0.ae1.br2.dfw13.alter.net (140.222.225.39)  38.464 ms  35.847 ms  44.266 ms
12  65.212.233.115 (65.212.233.115)  56.562 ms  44.311 ms  35.572 ms
13  atl-b22-link.telia.net (80.91.246.74)  62.610 ms  65.989 ms  55.330 ms
14  ash-bb3-link.telia.net (62.115.125.190)  79.454 ms  74.961 ms  185.810 ms
15  prs-bb3-link.telia.net (80.91.251.242)  156.816 ms  155.542 ms  149.110 ms
16  mno-b2-link.telia.net (62.115.135.79)  168.848 ms  188.882 ms  185.479 ms
17  turktelekom-ic-328623-mno-b2.c.telia.net (213.248.97.151)  184.357 ms  198.404 ms  178.435 ms
18  34-acibadem-xrs-statik.turktelekom.com.tr (212.156.141.225)  220.263 ms  242.391 ms  188.141 ms
19  06-ulus-xrs-statik.turktelekom.com.tr (195.175.170.160)  227.013 ms  213.825 ms  214.286 ms
20  06-idc-guvenlik-statik.turktelekom.com.tr (195.175.173.210)  209.122 ms  413.272 ms  228.904 ms
21  212.175.72.154.static.ttnet.com.tr (212.175.72.154)  232.171 ms  212.657 ms  210.544 ms
22  212.156.230.54.static.turktelekom.com.tr (212.156.230.54)  202.667 ms  249.155 ms  225.130 ms
23  212.156.230.54.static.turktelekom.com.tr (212.156.230.54)  219.658 ms  * *
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Sample Traceroute Number 5

```
Utility-MacBook-Pro-2:~ utility.terminal$ traceroute nus.edu.sg
traceroute to nus.edu.sg (137.132.21.27), 64 hops max, 52 byte packets
 1  172.20.10.1 (172.20.10.1)  29.316 ms  4.470 ms  5.074 ms
 2  145.sub-66-174-43.myvzw.com (66.174.43.145)  58.366 ms  57.072 ms  28.688 ms
 3  * * *
 4  * * *
 5  66.sub-69-83-106.myvzw.com (69.83.106.66)  20.853 ms  39.552 ms  40.610 ms
 6  2.sub-69-83-107.myvzw.com (69.83.107.2)  40.176 ms  40.528 ms  34.529 ms
 7  112.sub-69-83-96.myvzw.com (69.83.96.112)  49.216 ms  74.139 ms  60.389 ms
 8  112.sub-69-83-96.myvzw.com (69.83.96.112)  32.105 ms  31.345 ms  44.869 ms
 9  69.sub-69-83-96.myvzw.com (69.83.96.69)  41.001 ms  34.350 ms  38.087 ms
10  et-1-1-2.gw18.dfw9.alter.net (157.130.131.9)  44.904 ms  41.429 ms  39.994 ms
11  0.ae2.br2.dfw13.alter.net (140.222.225.53)  39.957 ms  39.097 ms  37.996 ms
12  65.212.233.115 (65.212.233.115)  41.975 ms  54.751 ms  37.807 ms
13  las-b21-link.telial.net (62.115.123.137)  82.720 ms  74.323 ms  56.560 ms
14  singaporetelecom-ic-335364-las-b21.c.telial.net (213.248.83.125)  76.942 ms  65.403 ms  87.326 ms
15  xn-toknfl-bd703.ix.singtel.com (203.208.172.218)  51.682 ms  67.313 ms  76.204 ms
16  203.208.151.233 (203.208.151.233)  350.161 ms  393.825 ms  55.429 ms
17  203.208.158.210 (203.208.158.210)  241.509 ms  254.029 ms  241.403 ms
18  203.208.153.110 (203.208.153.110)  265.339 ms  407.287 ms  232.619 ms
19  203.208.174.182 (203.208.174.182)  240.173 ms  274.656 ms  254.028 ms
20  ten-4-1.sn-sintpl-au301.singnet.com.sg (165.21.12.44)  213.911 ms  305.321 ms  259.142 ms
21  203.208.131.98 (203.208.131.98)  403.119 ms  254.767 ms  614.442 ms
22  ten-4-1.sn-sintpl-au301.singnet.com.sg (165.21.12.44)  440.316 ms  308.130 ms  251.571 ms
23  118.201.215.82 (118.201.215.82)  253.950 ms  255.241 ms  266.609 ms
24  nusnet-3-194.dynip.nus.edu.sg (137.132.3.194)  249.479 ms  255.123 ms  244.074 ms
25  nusnet-17-94.dynip.nus.edu.sg (137.132.17.94)  260.866 ms  245.338 ms  294.971 ms
26  nusnet-3-194.dynip.nus.edu.sg (137.132.3.194)  356.806 ms  269.667 ms  253.923 ms
27  nusnet-17-94.dynip.nus.edu.sg (137.132.17.94)  247.069 ms  261.450 ms  285.528 ms
28  yih0231.pc.nus.edu.sg (137.132.17.231)  241.203 ms  323.875 ms  249.204 ms
29  yih0230.pc.nus.edu.sg (137.132.17.230)  249.767 ms  245.827 ms  238.493 ms
30  nusnet-78-49.dynip.nus.edu.sg (137.132.78.49)  257.012 ms  258.157 ms  560.323 ms
31  yih0230.pc.nus.edu.sg (137.132.17.230)  294.827 ms  *  260.781 ms
```