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IP Trace Command In Bash

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Q. What is the ip trace command in bash? How do I trace IP address in Linux / UNIX bash shell prompt?

A. You can use any one of the following command in bash to trace IP address and other stuff:

a] **tracert** - It tracks the route packets take across an IP network on their way to a given host. It utilizes the IP protocol's time to live (TTL) field and attempts to elicit an ICMP TIME_EXCEEDED response from each gateway along the path to the host.



[1]

b] **tracert** - It traces path to destination discovering MTU along this path. It uses UDP port port or some random port. It is similar to tracert, only does not require superuser privileges. Option -c causes tracert to use the return address instead of the reply type (connection refused) to determine when to stop.

[2]

tracert command example

To trace IP router it, enter:

```
$ tracert {IP-address}
$ tracert 202.54.2.5
$ tracert google.com
```

Sample output:

```
1  sll-dallas.simplyguide.org (74.86.48.97)  0.539 ms  0.740 ms  0.727 ms
2  po102.dar01.dal01.dallas-datacenter.com (66.228.118.177)  0.713 ms  0.705 ms  0.900 ms
3  po1.cer02.dal01.dallas-datacenter.com (66.228.118.204)  1.125 ms  1.115 ms  1.102 ms
4  xe-7-4.r02.d11stx09.us.bb.gin.ntt.net (157.238.224.69)  168.721 ms  168.716 ms  168.704 ms
5  4.68.63.221 (4.68.63.221)  1.748 ms  te-10-1-0.edge2.Dallas3.level3.net (4.68.63.225)  1.748 ms
6  ge-1-3-0-79.bbr2.Dallas1.Level3.net (4.68.19.66)  1.928 ms  ge-1-3-0-79.bbr1.Dallas1.Level3.net (4.68.19.66)  1.928 ms
7  as-1-0.bbr1.Atlanta1.Level3.net (209.247.9.101)  21.007 ms  ae-0-0.bbr2.Atlanta1.Level3.net (209.247.9.101)  21.007 ms
8  ae-21-52.car1.Atlanta1.Level3.net (4.68.103.34)  21.696 ms  ae-11-51.car1.Atlanta1.Level3.net (4.68.103.34)  21.696 ms
9  GOOGLE-INC.car1.Atlanta1.Level3.net (4.78.209.194)  21.897 ms  22.126 ms  22.097 ms
10 209.85.254.243 (209.85.254.243)  22.576 ms  188.966 ms  209.85.254.241 (209.85.254.241)  22.576 ms
11 209.85.253.145 (209.85.253.145)  22.180 ms  209.85.253.133 (209.85.253.133)  30.700 ms  22.180 ms
12 yx-in-f100.google.com (74.125.45.100)  22.369 ms  22.295 ms  22.278 ms
```

tracert equivalents to tracert -I

To run Windows equivalent tracert command, enter:

```
$ tracert -I google.com
```

tracert example

Type the command as follows:

```
$ tracert {ip-address}
$ tracert google.com
```

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