

Tracert command in Windows

Eg websites like google.com, embedur.ai

```
C:\Users\Admin>tracert google.com
```

```
Tracing route to google.com [142.250.193.142]  
over a maximum of 30 hops:
```

1	<1 ms	<1 ms	<1 ms	dlinkrouter [192.168.0.1]
2	2 ms	1 ms	1 ms	103.218.112.1
3	*	4 ms	2 ms	103.194.240.1
4	3 ms	2 ms	2 ms	103.194.240.17
5	11 ms	10 ms	10 ms	103.173.252.13
6	11 ms	10 ms	10 ms	72.14.202.228
7	10 ms	10 ms	10 ms	172.253.69.51
8	11 ms	11 ms	10 ms	142.251.55.225
9	*	10 ms	10 ms	google.com [142.250.193.142]

```
Trace complete.
```

```
C:\Users\Admin>tracert embedur.ai
```

```
Tracing route to embedur.ai [162.159.137.54]  
over a maximum of 30 hops:
```

1	<1 ms	<1 ms	<1 ms	dlinkrouter [192.168.0.1]
2	2 ms	2 ms	1 ms	103.218.112.1
3	2 ms	2 ms	*	103.194.240.1
4	2 ms	2 ms	2 ms	103.194.240.17
5	10 ms	10 ms	10 ms	103.173.252.13
6	33 ms	33 ms	32 ms	103.173.252.18
7	35 ms	35 ms	34 ms	103.27.170.48
8	37 ms	36 ms	36 ms	162.158.226.83
9	48 ms	48 ms	48 ms	www.embedur.ai [162.159.137.54]

```
Trace complete.
```

Each line represents,

- **A Hop (router).**
- The **IP** address is the router's address.
- The number (e.g., 1 ms) is the **round-trip time** for the packet.

Asterisks :

If a hop doesn't respond, asterisk occurs indicating a firewall or router blocking ICMP responses.

Tracert -d hostname/IP

-d Does not resolve addresses to hostnames.

```
C:\Users\Admin>tracert -d amazon.in

Tracing route to amazon.in [52.95.120.67]
over a maximum of 30 hops:

  1  <1 ms  <1 ms  <1 ms  192.168.0.1
  2   2 ms   2 ms   2 ms  103.218.112.1
  3   *      *      *      Request timed out.
  4   2 ms   2 ms   2 ms  103.194.240.17
  5  11 ms  10 ms  10 ms  103.173.252.13
  6  11 ms  11 ms  11 ms  182.71.206.145
  7 150 ms 150 ms 150 ms 116.119.36.60
  8 164 ms 165 ms 164 ms 116.119.156.105
  9 151 ms 151 ms 151 ms 182.79.141.205
 10 151 ms 151 ms 155 ms 116.119.68.60
 11   *      *      *      Request timed out.
```

-h number = maximum number of hops

```
C:\Users\Admin>tracert -h 10 google.com

Tracing route to google.com [142.250.196.46]
over a maximum of 10 hops:

  1  <1 ms  <1 ms  <1 ms  dlinkrouter [192.168.0.1]
  2   2 ms   2 ms   2 ms  103.218.112.1
  3   *      *      3 ms  103.194.240.1
  4   2 ms   2 ms   2 ms  103.194.240.17
  5  11 ms  10 ms  10 ms  103.173.252.13
  6  11 ms  10 ms  17 ms  72.14.202.228
  7  12 ms  11 ms  11 ms  142.250.209.75
  8  10 ms  10 ms  10 ms  142.251.55.31
  9  11 ms  10 ms  10 ms  google.com [142.250.196.46]

Trace complete.
```

-w number = Wait timeout milliseconds for each reply.

```
C:\Users\Admin>tracert -w 10 google.com

Tracing route to google.com [142.250.193.142]
over a maximum of 30 hops:

  1  <1 ms    <1 ms    <1 ms    dlinkrouter [192.168.0.1]
  2   2 ms     1 ms     1 ms     103.218.112.1
  3   *        *        *        Request timed out.
  4   2 ms     2 ms     2 ms     103.194.240.17
  5  11 ms    10 ms    10 ms    103.173.252.13
  6   *        *        *        Request timed out.
  7  10 ms    10 ms    10 ms    172.253.69.51
  8   *        *        *        Request timed out.
  9  10 ms    10 ms    10 ms    google.com [142.250.193.142]

Trace complete.
```

-j gateway ip and website = specify a list of intermediate hosts (routers) through which the packets should pass on their way to the destination.

Loose source routing

```
Command Prompt
C:\Users\Admin>tracert -j 192.168.0.1 10.0.0.1 google.com

Tracing route to google.com [142.250.196.46]
over a maximum of 30 hops:

  1  *        *        *        Request timed out.
  2  *        *        *        Request timed out.
  3  *        *        *        Request timed out.
  4  *        *        *        Request timed out.
  5  *        *        *        Request timed out.
  6  *        *        *        Request timed out.
  7  *        *        *        Request timed out.
  8  *        *        *        Request timed out.
  9  *        *        *        Request timed out.
 10 *        *        *        Request timed out.
 11 *        *        *        Request timed out.
 12 *        *        *        Request timed out.
 13 *        *        *        Request timed out.
 14 *        *        *        Request timed out.
 15 *        *        *        Request timed out.
 16 *        *        *        Request timed out.
 17 *        *        *        Request timed out.
 18 *        *        *        Request timed out.
 19 *        *        *        Request timed out.
 20 *        *        *        Request timed out.
 21 *        *        *        Request timed out.
 22 *        *        *        Request timed out.
 23 *        *        *        Request timed out.
 24 *        *        *        Request timed out.
 25 *        *        *        Request timed out.
 26 *        *        *        Request timed out.
 27 *        *        *        Request timed out.
 28 *        *        *        Request timed out.
 29 *        *        *        Request timed out.
 30 *        *        *        Request timed out.

Trace complete.
```

-4 (Forcing IPv4) and -6 (Forcing IPv6) addresses to check routing path are other example commands