




[Monitis Traceroute \( \)](#)



Mon May 06 15:53:51 GMT+00:00 2013  
Traceroute from Monitis US-MID location to msn.com

traceroute to msn.com (65.55.206.228), 30 hops max, 60 byte packets

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01 mppdedicated.com (173.192.34.65) 0.349 ms 0.255 ms 0.244 ms
02 ae15.dar01.sr01.dal01.networklayer.com (66.228.118.220) 0.166 ms 0.152 ms 0.172 ms
03 ae6.bbr01.eq01.dal03.networklayer.com (172.202.252.222) 0.092 ms 0.199 ms
04 ***
05 ge-5-0-0-dal-64cb-1a.nwtk.msn.net (207.46.40.179) 4.807 ms 0.840 ms 1.075 ms
06 xe-1-1-2-0-blu-96c-1b.nwtk.msn.net (207.46.46.199) 49.726 ms 33.507 ms 33.612 ms
07 ten9-2.blu-76c-1b.nwtk.msn.net (207.46.47.157) 33.032 ms 32.462 ms 32.488 ms
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This first line of the tracert command describes what the command is doing which is showing the maximum number of hops will be 30 to reach the destination of 65.55.206.228 msn.com

\*\*\* Request timed out. If these are seen along the way then it is a firewall blocking traceroute packets. A "Request timed out" message at the beginning of a traceroute is very common and can be ignored. This is typically a device that doesn't respond to ICMP or traceroute requests

[IP Address]	[RTT1]	[RTT2]	[RTT3]
(207.46.47.157)	33.032 ms	32.462 ms	32.488 ms

\*RTT= Round Trip Time (RTT): The time it takes for a packet to get to a hop and back, displayed in milliseconds (ms). By default, tracer sends three packets to each hop, so the output lists three roundtrip times per hop. RTT is sometimes also referred to as latency. An important factor that may impact RTT is the physical distance between hops.

If an asterisk (\*) appears for RTT, then a packet was not returned within the expected timeframe  
Ex:  
[IP Address] | [RTT1] | [RTT2] | [RTT3]  
(207.46.47.157) | 33.032 ms | 32.462 ms | \*

One or two asterisks for a hop do not necessarily indicate packet loss at the final destination. Many internet routers intentionally discard ping or traceroute packets, but this has no bearing on applications that use these routers. This practice is called ICMP Rate Limiting and is used to prevent routers from being impacted by denial-of-service attacks.

In principle, RTT values of less than 150 ms from your home to the final destination shouldn't impact internet applications. Many applications work just fine with latencies even higher than that, but for sites that are US-based they should fall below 150 ms and usually are < 100 ms.

Latency over an uncongested network is primarily dependent on the physical fiber distance between the source (your PC) and the destination (e.g. server). If the source and destination are thousands of miles apart, average latency values of 100-120 ms are acceptable as communication is limited by the speed of light over the entire physical fiber distance.

Hop number: The specific hop number in the path from the sender to the destination

There are several reasons why a "Request timed out" message may appear at the end of a traceroute, such as in hops 17 through 19.

- The destination's firewall or other security device is blocking the request. Even if a firewall is preventing the final hops at the destination from showing up in traceroute output, the destination is likely still reachable using the application you're interested in (e.g. web/HTTP).
- There could be a problem on the return path from the target system. Remember the round trip time measures the time it takes for a packet to travel from your system to a destination system and back. The forward route and the return route often follow different paths. If there is a problem on the return route, it may not be evident in the command output.
- There may be a connection problem at that particular system or the next system.

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