Traceroute

A straightforward yet sophisticated command-line tool for tracing an IP packet's travel across one or more networks

The Windows implementation, known as "tracert," was initially created for UNIX-based platforms but is now present in most operating systems. A traceroute is another common name for the results of these instructions. Your ISP might request a traceroute if you contact them for assistance with, for example, poor streaming video performance.

Various TraceRoute Commands:-	
Option	Description
-d	Do not resolve addresses to hostnames.
-h aximum_hops	Maximum number of hops to search for target. You can put higher than 30, if you want to query a very remote target.
-j host-list	Loose source route along host-list (IPv4-only). Show only IPv4 addresses.

-w timeout	Wait timeout milliseconds for each reply. Inscrease it, to see more about slower routers.
-R	Trace round-trip path (IPv6-only).
-S srcaddr	Source address to use (IPv6-only).
-4	Force using IPv4.
-6	Force using IPv6.

CLI implementation