

### 3. ping

This is the most commonly used command for checking connectivity.

```
ping www.google.com
PING www.google.com (172.217.163.36) 56(84) bytes of data.
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=1 ttl=53 time=51.4 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=2 ttl=53 time=50.3 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=3 ttl=53 time=48.5 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=4 ttl=53 time=59.8 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=5 ttl=53 time=57.8 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=6 ttl=53 time=59.2 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=7 ttl=53 time=68.2 ms
64 bytes from maa05s01-in-f4.1e100.net (172.217.163.36): icmp_seq=8 ttl=53 time=58.8 ms
^C
--- www.google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7004ms
rtt min/avg/max/mdev = 48.533/56.804/68.266/6.030 ms
```

A healthy connection is determined by a steady stream of replies with consistent times. Packet loss is shown by discontinuity of sequence numbers. Large scale packet loss indicates problem along the path.