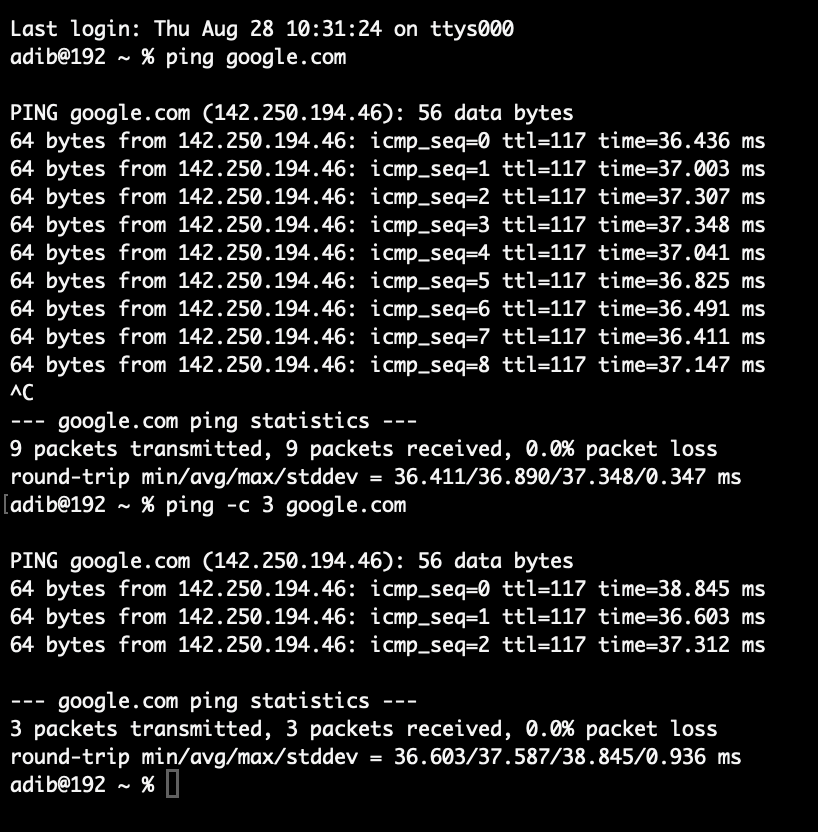
**Networking Terminal Command Understanding**

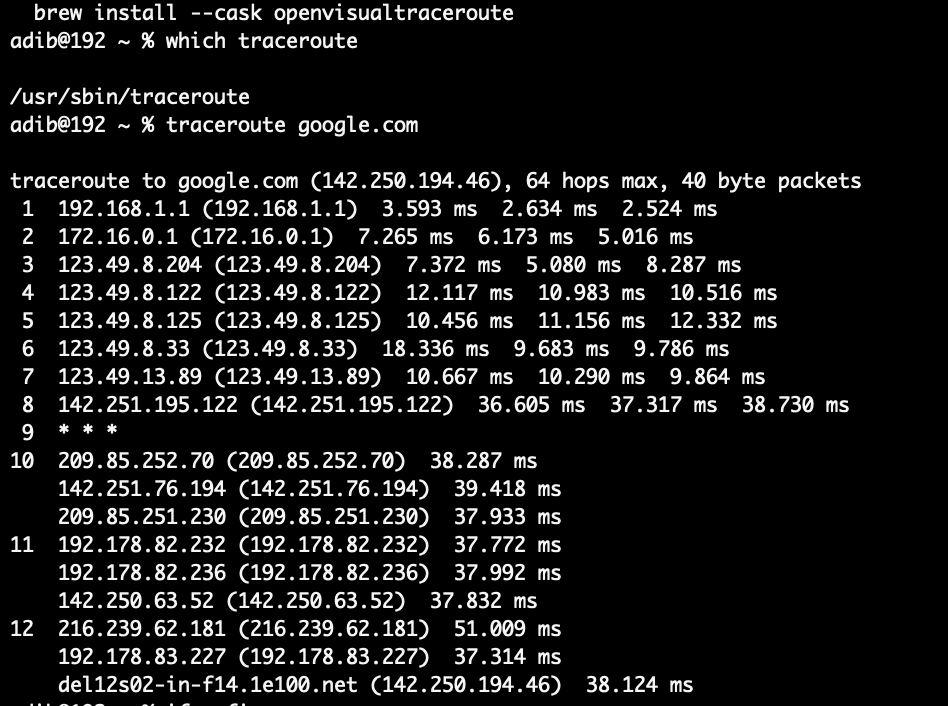
Jubair Ahammad Akter\_59

August 28, 2025

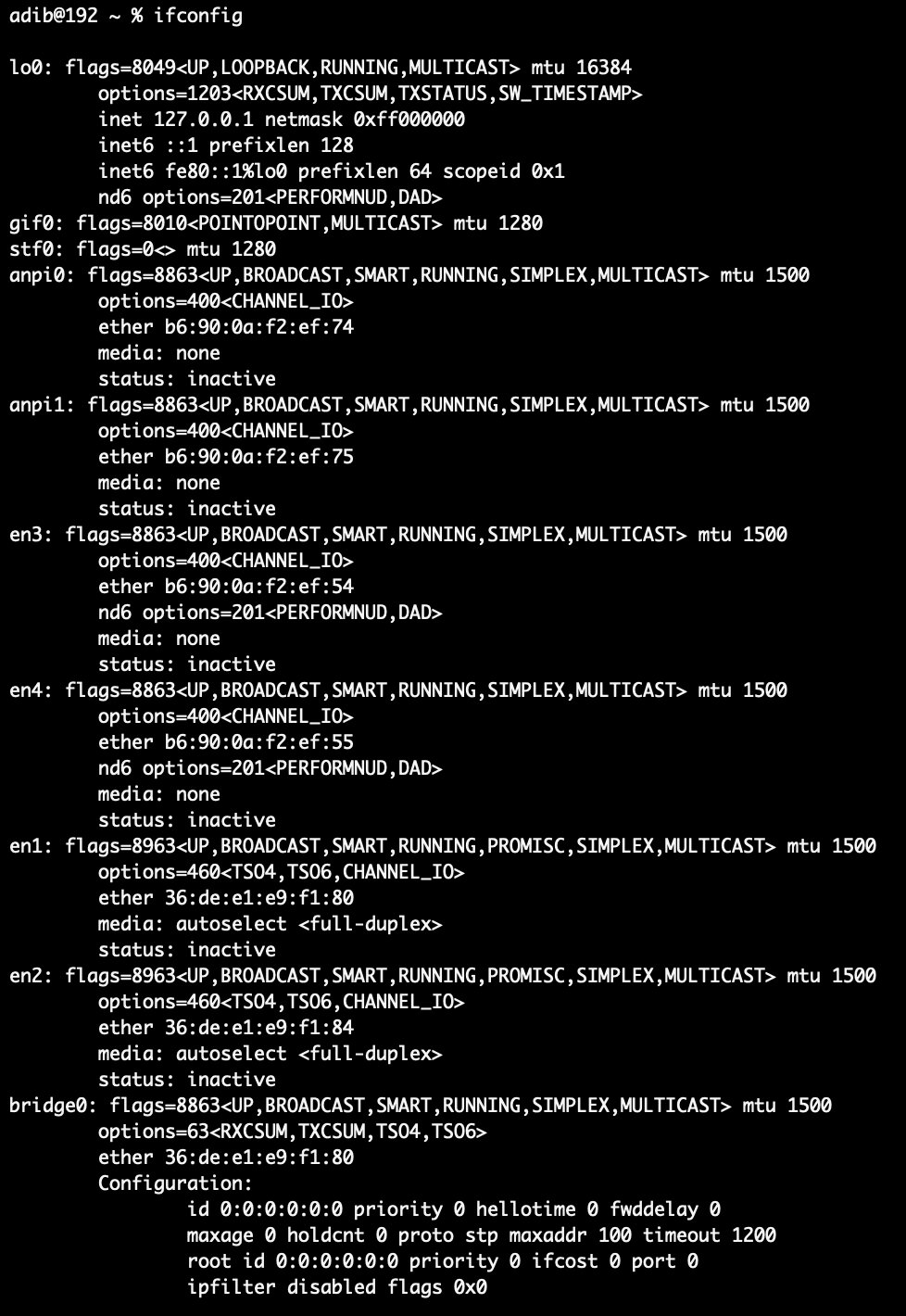
**Ping**  


Tested network connectivity and round-trip time (also called latency) between my device and a remote server.

**Traceroute**

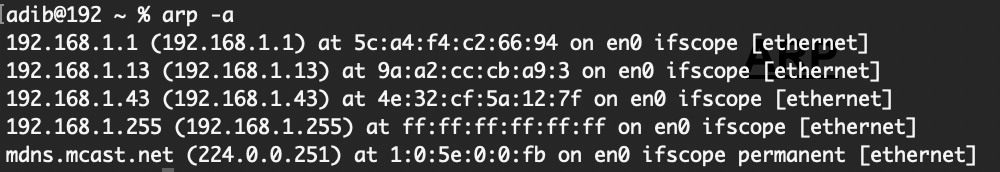
  
  
Observed how many packets travel through multiple routers/hops to reach a destination server.

**Ifconfig**



We can check network interface details, as well as IP address, subnet mask, and MAC address.

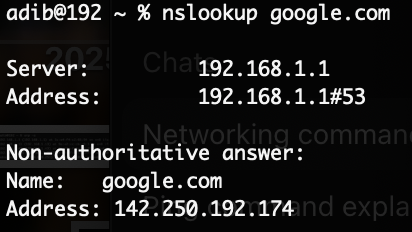
**ARP**

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Understood how IP addresses are mapped to MAC addresses within the local network.  
  
**RARP**

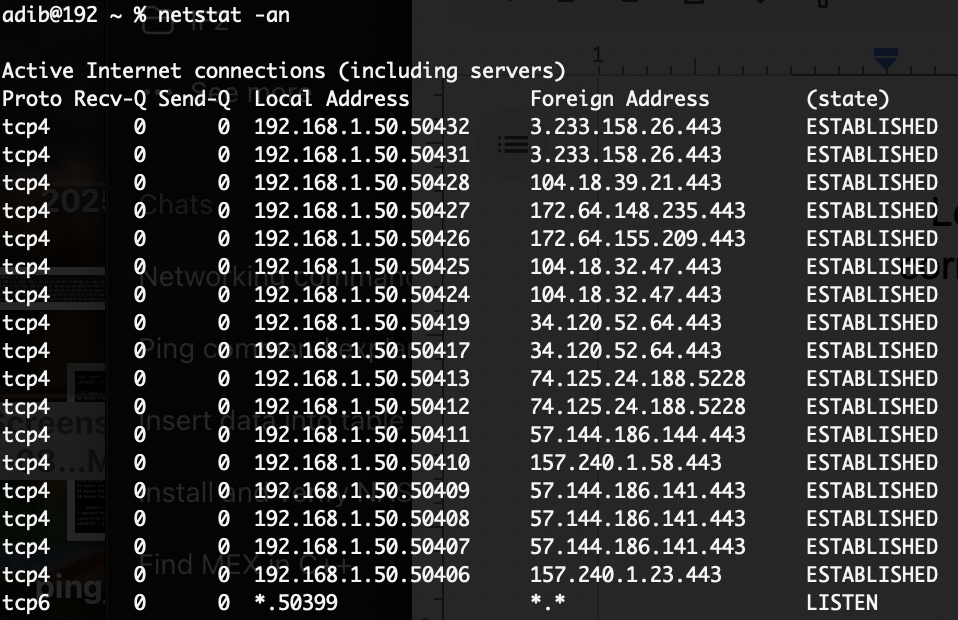
Learned that Reverse ARP maps a MAC address back to its corresponding IP address, though it’s mostly replaced by DHCP today.

**NSLOOKUP**

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Practiced resolving domain names into IP addresses using a DNS server.

**NETSTAT**



active connections, listening ports, and ongoing network sessions