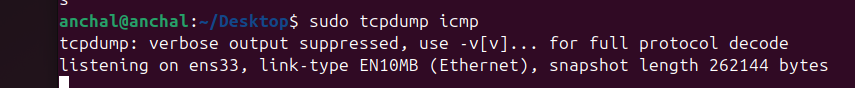
**Q1: Examine the commands like tcpdump, netstat, ifconfig, nslookup and traceroute. Capture ping and traceroute PDUs using a network protocol analyzer.**

**Ans: Capture network traffic using tcpdump**

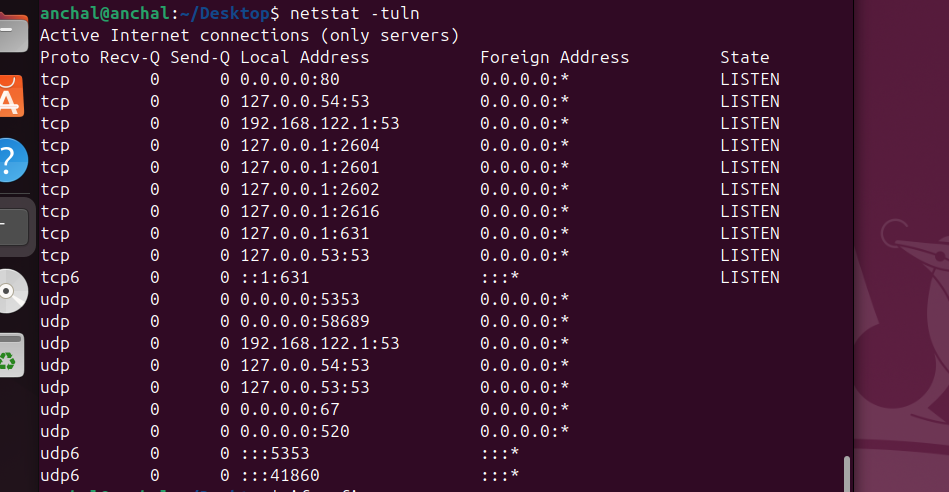
1. **Command**: **(a) sudo tcpdump icmp**

**(b) sudo tcpdump -i any**



* **To View network connections**

1. **Command : netstat -tuln**

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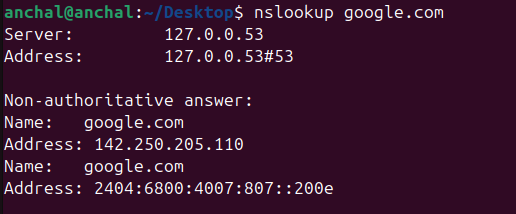
* **Check IP and network interface details**

1. **Command: ifconfig**

**You can run this command in your Command prompt and get the output.**

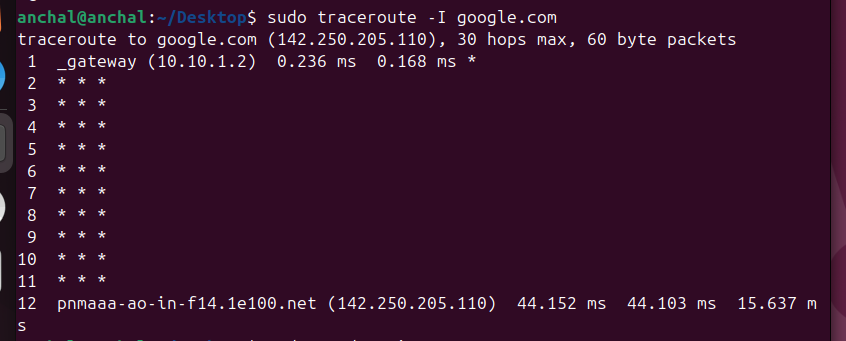
* **Query DNS information**

1. **Command: nslookup google.com**

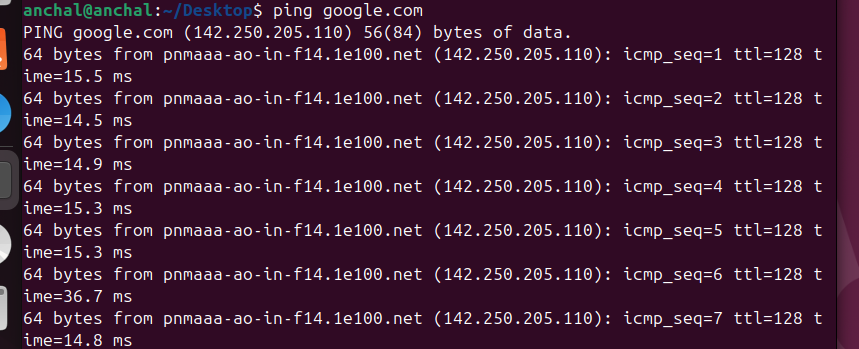
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* **Trace the route packets take to a network host**

1. **Command: traceroute google.com**

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* **Ping Command:**

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