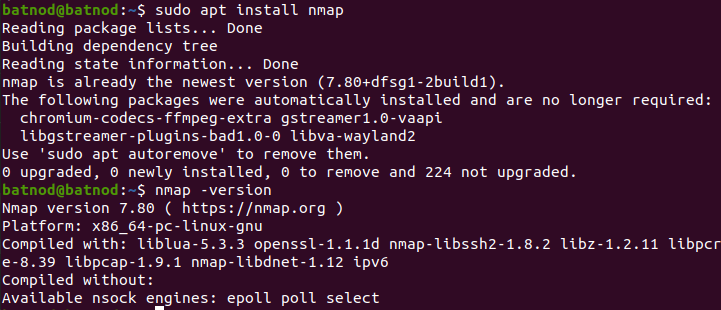
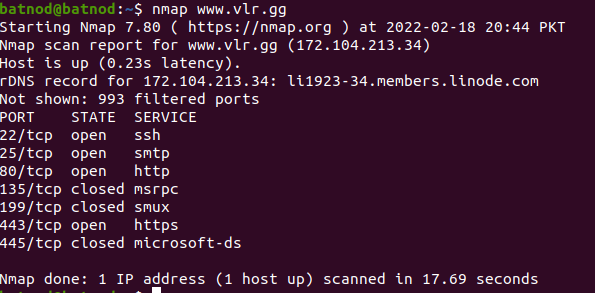
**How to use the following Linux commands: nmap, tcpdump, ping, mtr, traceroute, dig, airman, airdump, dig, iptables, netstat**

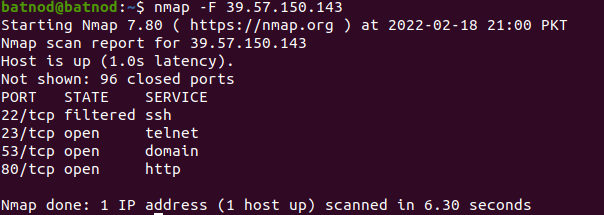
**NMAP:**

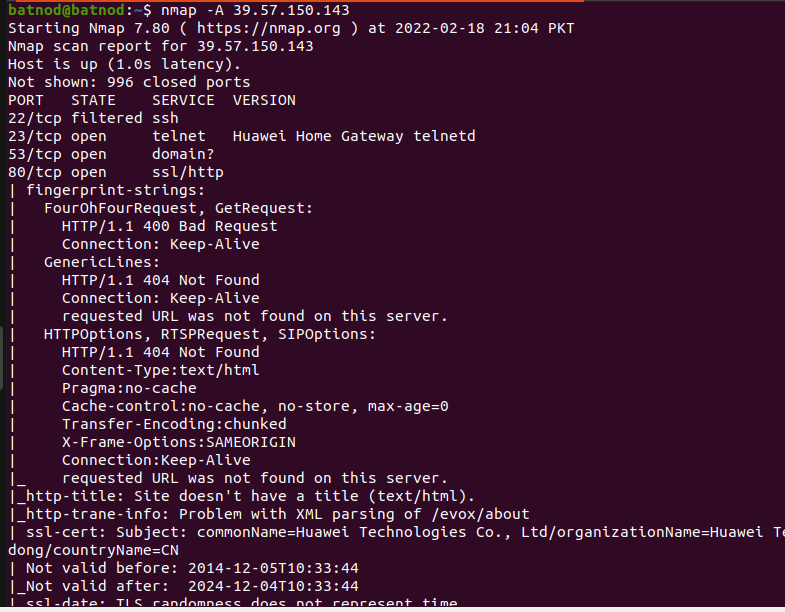
Nmap, or Network Mapper, is an open source Linux command line tool for network exploration and security auditing. With Nmap, server administrators can quickly reveal hosts and services, search for security issue

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**Nmap command to scan for open ports:**

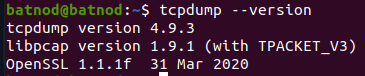
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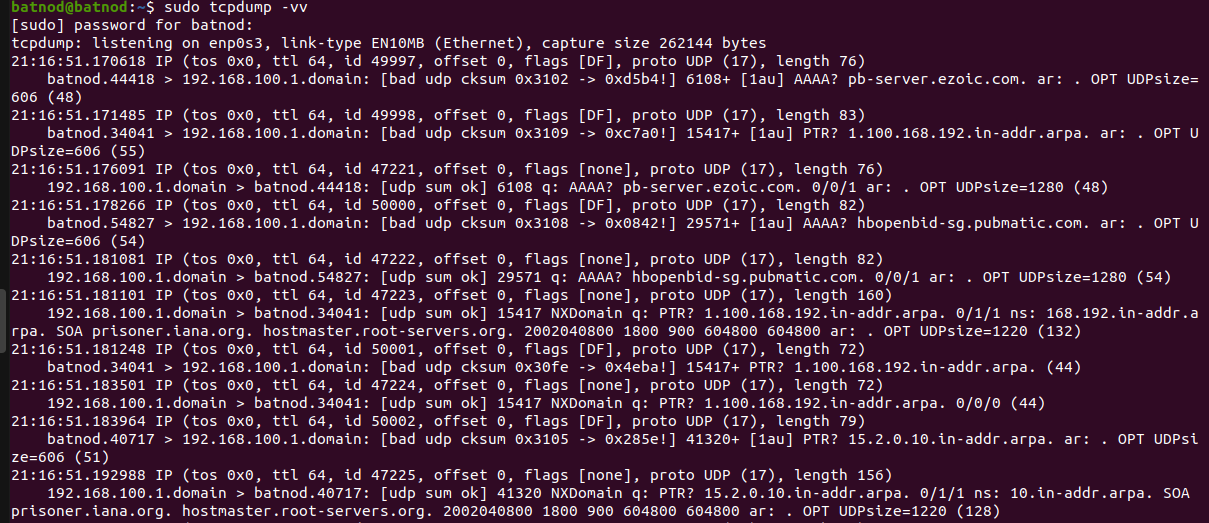
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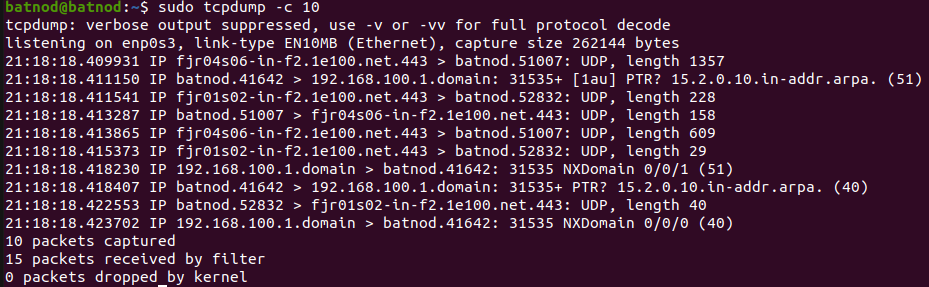
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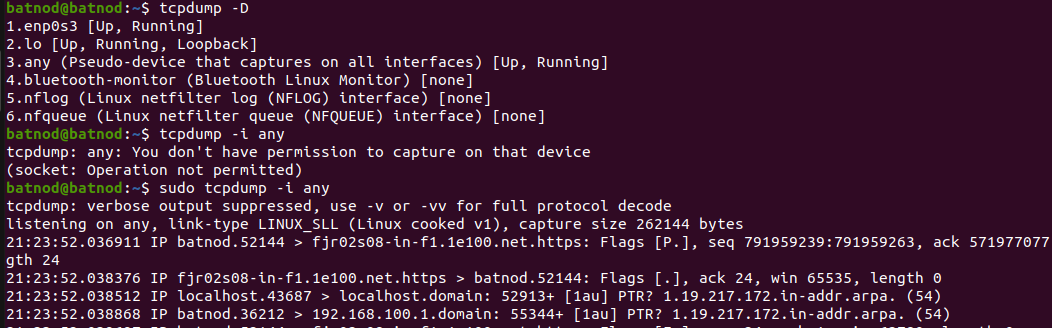
**Tcpdump:**

Tcpdump is a command line utility that allows you to capture and analyze network traffic going through your system. It is often used to help troubleshoot network issues, as well as a security tool.

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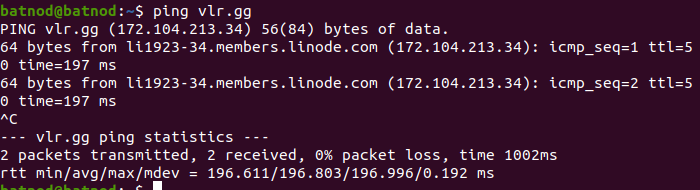
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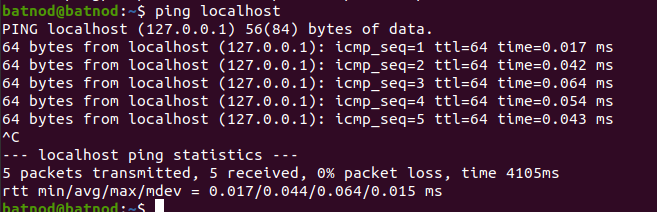
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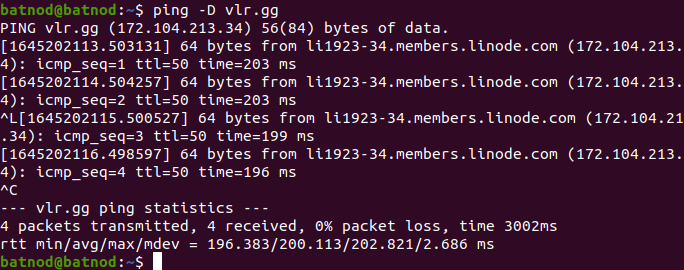
**Ping:**

[Ping](https://www.paessler.com/ping-monitoring) is a command-line utility, available on virtually any operating system with network connectivity, that acts as a test to see if a networked device is reachable.

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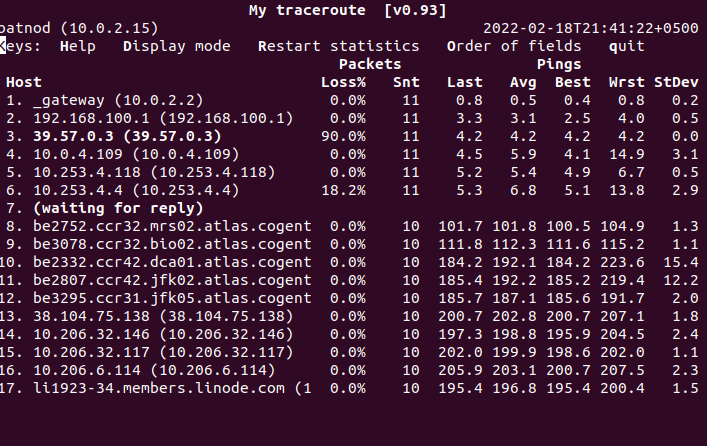
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**Mtr:**

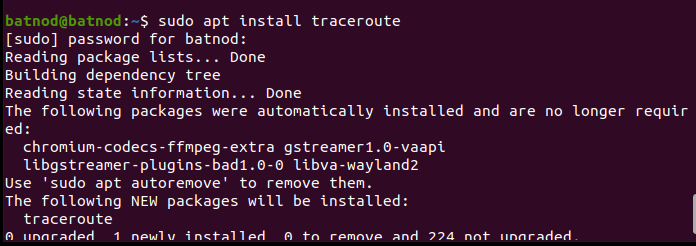
MTR is a simple, cross-platform command-line network diagnostic tool that combines the functionality of commonly used traceroute and ping programs into a single tool.

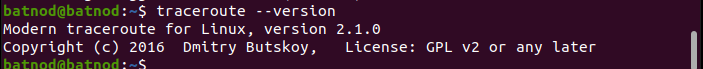
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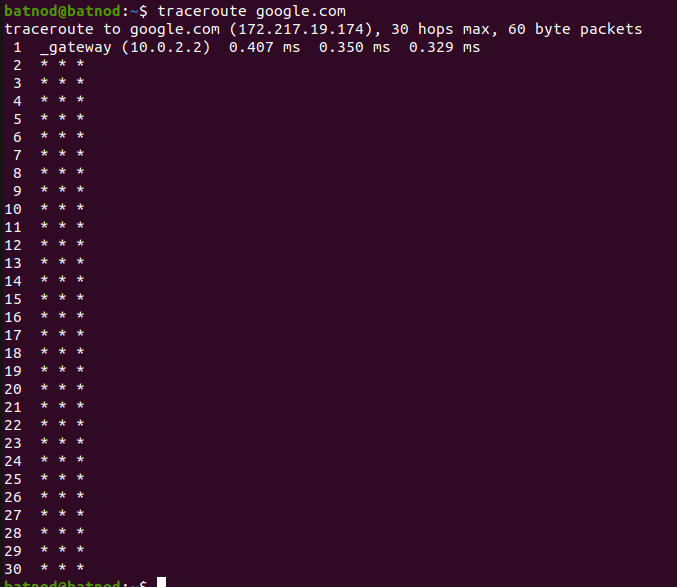
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**Traceroute:**

The traceroute command attempts to trace the route an IP packet follows to an Internet host by launching UDP probe packets with a small maximum time-to-live (Max\_ttl variable), then listening for an ICMP TIME\_EXCEEDED response from gateways along the way.

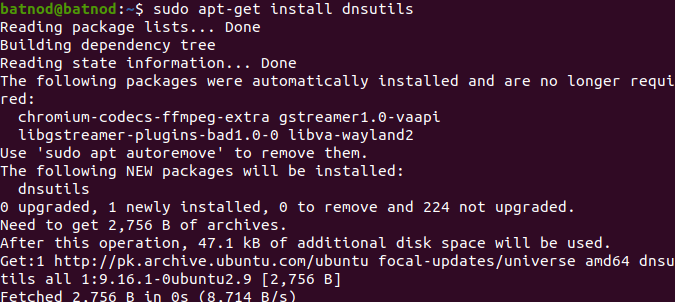


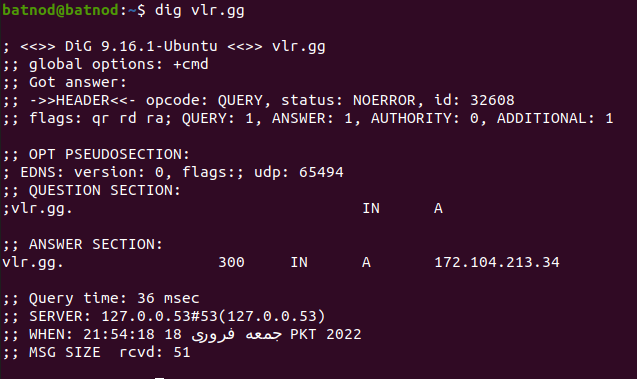




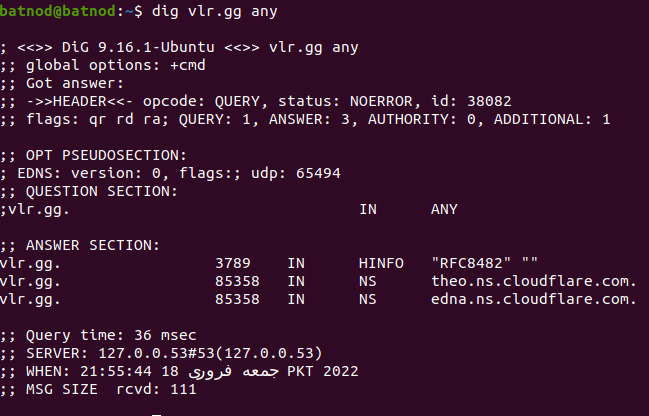
**Dig:**

The command dig is a tool for querying DNS nameservers for information about host addresses, mail exchanges, nameservers, and related information.

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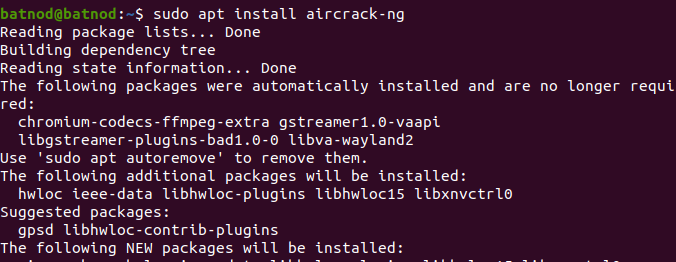
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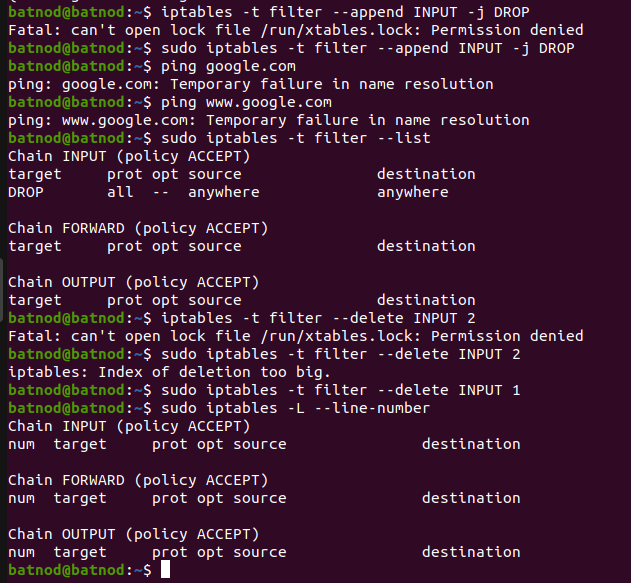
**Airdump:**

airodump-ng is used for packet capturing of raw 802.11 frames for the intent of using them with aircrack-ng.



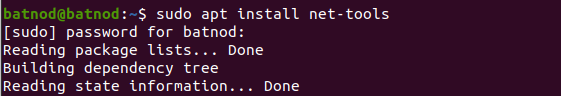
**Iptables:**

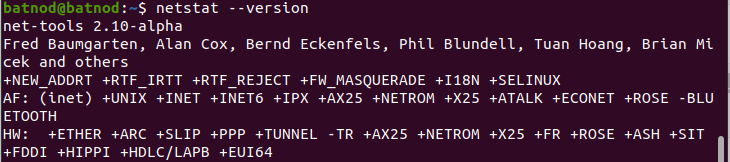
iptables is a command line interface used to set up and maintain tables for the Netfilter firewall for IPv4, included in the Linux kernel.

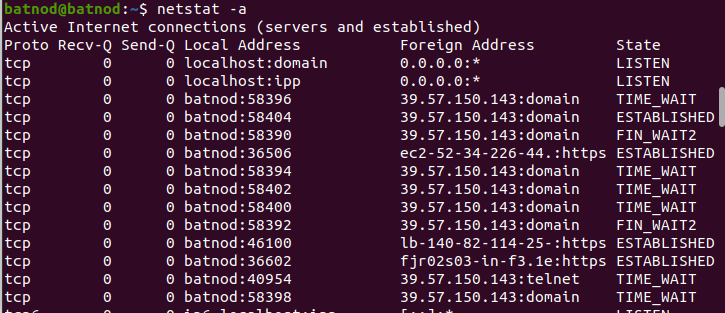


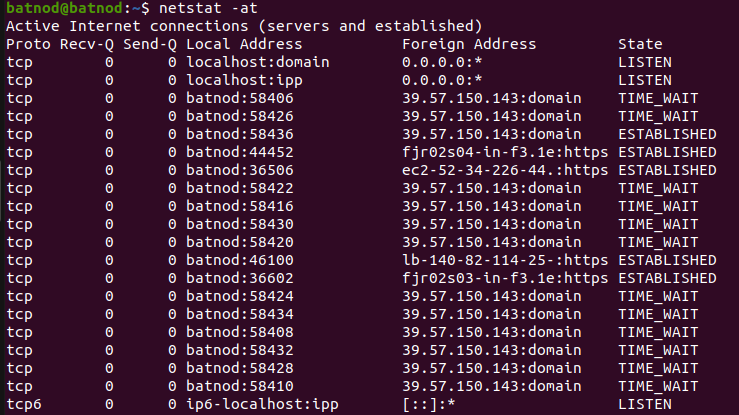
**NETSTAT:**

Netstat is a command line utility that can be used to list out all the network (socket) connections on a system. It lists out all the tcp, udp socket connections and the unix socket connections.

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