

CSCI 210 Systems Programming

Week 16

Network Monitoring and Configuration

Overview

- Some useful commands from the `net-tools` and `iproute2` packages
 - `nslookup`
 - `host`
 - `ping`
 - `traceroute`
 - `dig`
 - `ip`
 - `ifconfig`
- Configuring iptables

Linux network commands

- <https://phoenixnap.com/kb/linux-network-commands>
 - nslookup
 - host
 - ping
 - traceroute
 - dig
 - ip
 - ifconfig

iptables

- Iptables is a firewall utility for Linux.
- It monitors traffic from and to a Unix/Linux using tables.
- These tables contain sets of rules, called chains, that filter incoming and outgoing data packets.
- See: <https://www.hostinger.com/tutorials/iptables-tutorial>
 - ACCEPT, DROP, RETURN target values
 - INPUT, OUTPUT, FORWARD chains

Additional resources

- <https://phoenixnap.com/kb/linux-network-commands>
- <https://tldp.org/HOWTO/Adv-Routing-HOWTO/lartc.iproute2.html>
- <https://www.geeksforgeeks.org/ifconfig-command-in-linux-with-examples/>
- <https://phoenixnap.com/kb/linux-network-bandwidth-monitor-traffic>