

# 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>