

## Domain Name System DNS

### Dynamical host configuration protocol DHCP

#### Ethernet

- wired network hardware

#### Host name

- name a computer gets, easy to read

#### internet

- globe Spanning network of interconnected computers

- IP address, Internet protocol

#### network mask

- distinguish between network and machine

portion of IP address

- windows shown as subnet

#### gateway

- routers IP for machines to go to internet

#### TCP/IP

- Transmission Control protocol

- Internet protocol

- Set of standards that the underlying most modern network connections at

software level

#### iwlist

- identify nearby wireless networks

#### iwconfig

- connect and disconnect from specific wireless networks

#### ifconfig

- bring up or shut down specific network connection and associate an IP address

#### route

- adjust computers routing table

#### /etc/fstab.conf

- config file to host DNS servers

#### dhclient dhclient

- DHCP Client

#### Ping

- send packet to specified IP

- limit sends (per second, must cancel)

#### traceroute

- sends pings to multiple locations between you and destination server

- helpful for determining where network issue is

#### netstat

- display network connections, routing tables, and network interface statistics

#### Linux network security

1. Shut down unused services

2. Enable a firewall

3. Use good passwords

4. Be suspicious

5. Keep software up-to-date