

Domain Name System DNS

Dynamic host configuration protocol DHCP

Ethernet

- wired network hardware

Hostname

- 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 known as subnet

gateway

- routes IP for machines to go to internet

TCP/IP

- Transmission control protocol
- Internet protocol
- Set of standards that underlie 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 / resolv.conf

- config file to host DNS servers

netclient netcat

- netcat client

ping

- sent packet to specified IP
- linux sends 1 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