

Layers

Addresses

Application
 Transport - port numbers (e.g. 80 web server)
 Network - IP Addresses IPv4, IPv6
 Data Link - MAC " (media access control) unique
 Physical

tools: ping

IP addr:

138.234.44.4
 └───┬──┘ └─┘
 gburg CS
 addr

DNS: domain name service
(names to IP addr)

nslookup

netstat -a | more

nmap → audit a machine/network

↑
└─ don't use

arp: address resolution protocol
(IP addr to MAC addr)