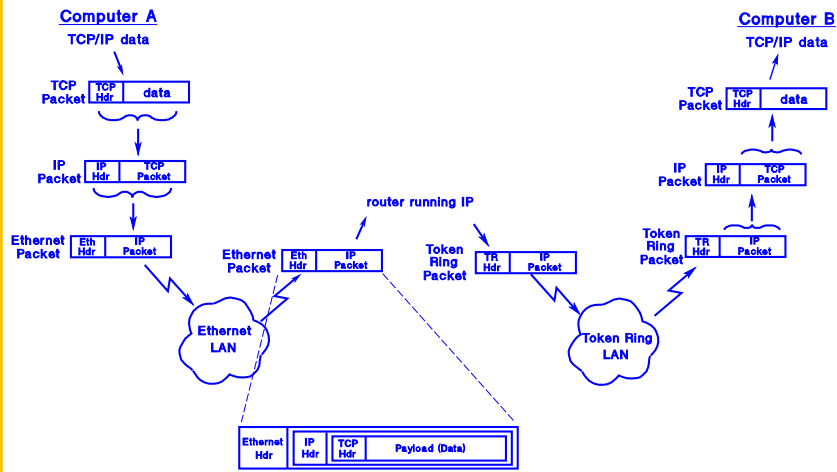
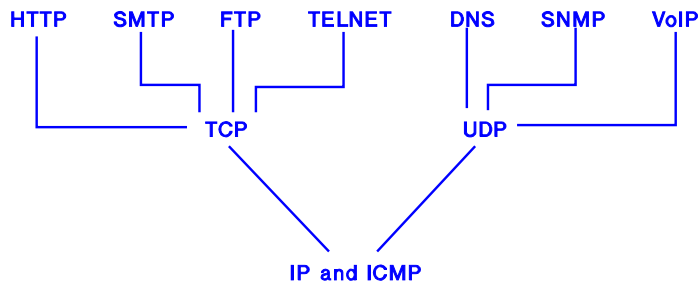


IP Over Different Networks



NETW0016

Internet Protocol Suite



NETW0025

IP Packet Format

| | | | | |
|---------------------|---------------|-----------------|---------------|--|
| Version | Header Length | Type of Service | Packet Length | |
| Identification | | | Flags | |
| Time to Live | Protocol | Checksum | | |
| Source Address | | | | |
| Destination Address | | | | |
| Data | | | | |

NETW0030

IP Addresses

32 bit value, usually expressed in
"Dotted-Quad" format

129 . 101 . 153 . 33

One byte

URL is converted to IP address by DNS

IP is assigned to a system either statically,
or dynamically by DHCP

NETW0080

Private Networks

| <i>Net Class</i> | <i>Network Mask</i> | <i>Network Address Range</i> |
|------------------|---------------------|-------------------------------|
| <i>Class A</i> | 255.0.0.0 | 10.0.0.0 - 10.255.255.255 |
| <i>Class B</i> | 255.255.0.0 | 172.31.0.0 - 172.31.255.255 |
| <i>Class C</i> | 255.255.255.0 | 192.168.0.0 - 192.168.255.255 |

NETW010