Routing TCP/IP Vol 1 Notes

7 Jun 2008

Chapter 1: TCP/IP Review

Internet Protocol (IPv4)

Version (4 bits) - IP version (4 or 6)

Header lentgh (4 bits) - Length of header plus any options

Type of Service (TOS) (8 bits) - Used for QoS; can also be evaluated as *DiffServ Code Point (DSCP)*

Total length (16 bits) - Total packet size

Identifier (16 bits) - Identifies fragments belonging to a single original packet

Fragmentations flags (3 bits) - Three flags: unused, *Don't Fragment (DF)*, and *More Fragments (MF)*

Fragment offset (13 bits) - Specifies the offset of a fragment from the beginning of the original packet (in units of eight bytes)

Time To Live (TTL) (8 bits) - Tracks hop count

Protocol (8 bits) - Identifies the upper-layer protocol

Header checksum (16 bits) - Used for header error detection

Source address (32 bits)

Destination address (32 bits)

Options (variable length) - Optional attributes generated by the originator

Common IP options:

Loose source routing - A list of IP addresses (router interfaces) the packet should traverse

Strict source routing - A routing path which must be followed exactly

Record route - Routers traversed record the address of their outbound interface on the packet

Timestamp - Like record route but also includes a timestamp

Address Resolution Protocol (ARP)

ARP header:

Hardware type (16 bits) - Identifies the type of layer 2 technology (Ethernet, HDLC, etc)

Protocol type (16 bits) - Identifies the network-layer protocol

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