Module - 1: Data Communication Components - 3

Monday, January 17, 2022 3:23 PM IP address - Regnized for routing the packet outside the network perimeter. TCP9/1P - main protocols to carry data across the networks. (they are the main vehicles for carrying the data). Encapeulation/Decapsulation: one of the important concepts in protocol layering in the Indemed. Transport layer header: Îdentifies somee and destination

Applications processes, information needed for flow control, error undrol

or Congestion Control.

- Seament (TCP) - Transmission Control Protocol. TL preset _____ (TCP) - Transmission Control Protond. > User destagram (UDP). - User Datagram

Network layer header: 1P logical address of the source and the destination hosts, fragmentation information, information for error cheeking of the header, and so on, NW Layer packet - datagram.

Data link layer header: physical link boyer addresses of the

host or the next hop (ronter)

DL layer header - Frame

I pressed on the physical
layer for transmission.

OST Model.

Open system: Set of protous that allows two different systems to communicate regardless of their underlying hardware and Software.

OST - not a protosof but a model for inderstanding and designing a network architecture that is flexible, robust, and interoperable.

OSI model – a layered framework for the design of network systems that allows communication between all types of computers.

Presentation layer:

Dresponsible for delivery and formatting of information for the application for further processing and display.

(different computer architectures have different dark

different computer architectures have different data representatives). — BIG ENDIAN SYSTEM }

2) handles all issues related to data presendation and fromsport, including translation, encryption, and compression

Session Layer.

1) Uses the services brivided by the TL, enables application to establish and maintain sessions and to synchronize sessions.

2) the use of Check points by the session layer enables the Communication Session to resume Communication from the point at which failure occurred. (useful for sending large files).

It Although Services provided by the PL and IL were listed in the OSI model documentation, but actual protours for these two layers were not fully defined described and the corresponding IN was not fully developed.