Open system Interconnection (OSI)

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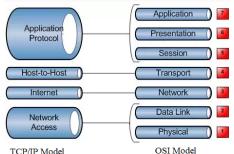
August 10, 2020





OSI reference model

- It was introduced by International Organization for Standardization (ISO) in 1984.
- Its goal is the interoperability of diverse communication systems with standard communication protocols.
- The concept of a seven-layer model was provided by the work of Charles Bachman at Honeywell Information Systems.
- In this model, a networking system was divided into layers.





Application Layer

Application Layer:

Network Applications

HTTP,HTTPS, FTP, NFS, DHCP, SMTP, TELNET,POP3









File Transfer

Web Surfing

Email

Virtual Server







HTTP/S



SMTP

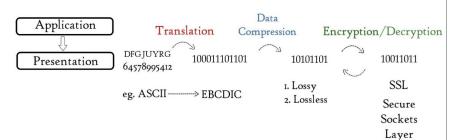


Telnet

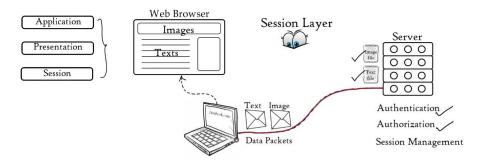


Presentation Layer

Presentation Layer

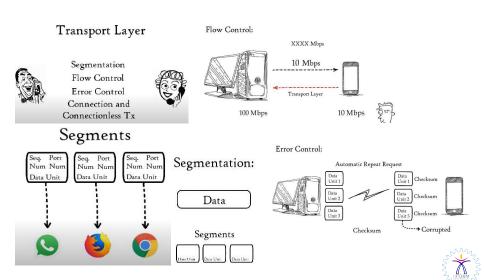


Session Layer





Transport Layer



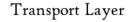
Transport Layer Cont...

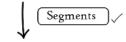




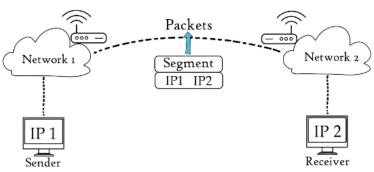


Network Layer

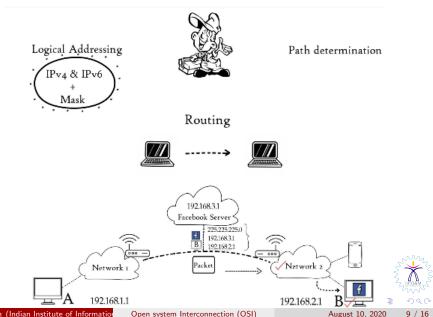




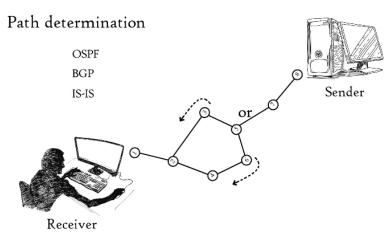
Network Layer



Network Layer Cont...



Network Layer Cont...



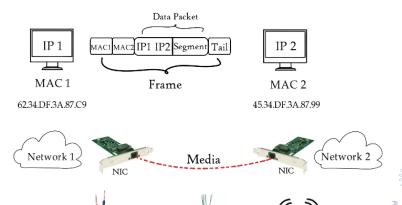


Data Link Layer

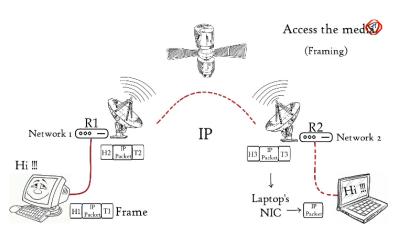
Data Link Layer

- Logical addressing : Network layer

- Physical addressing : Data Link layer



Data Link Layer Cont...





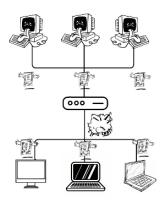
Data Link Layer Cont...

Controls how data is placed and received from the media



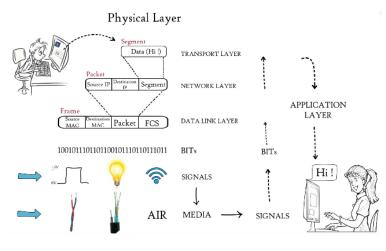
DATA LINK LAYER





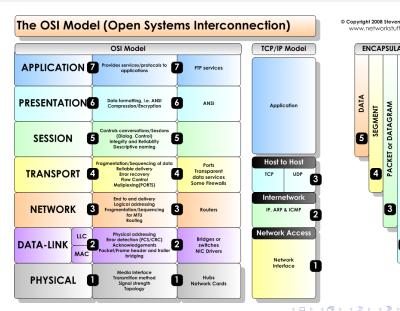


Physical Layer

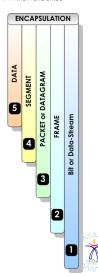




OSI Reference Model



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Thank You

