

# Networking Essentials

## THE OSI MODEL

Layer	Description	Device	Implementations and Protocols
Application (7)	Provides services directly to user applications. Identifies communication partners, identifies quality of service, considers user authentication and privacy, and determines if adequate resources are present.	Gateway	SMTP, HTTP, SFTP, FTP, SNMP, Telnet, AppleTalk
Presentation (6)	Performs data transformations and services including formatting, compression, and encryption services to provide a common interface for user applications.	Gateway and Routers	HTTP, FTP, Telnet, SMTP, SFTP, TQ
Session (5)	Establishes, manages and terminates connections between applications at each end. Allows 3 applications to communicate over a network by opening a session and synchronizing the involved computers.	Gateway	NetBIOS, TCP, UDP, SPX
Transport (4)	Provides transparent transfer of data between end systems by installing layers 1-3 from complexes of layers 1-3. Responsible for end-to-end error recovery and flow control and ensures complete data transfer.	Gateway	IP, IPX, NWLink, NetBEUI
Network (3)	Establishes, maintains, and terminates network connections. Handles traffic management including addressing, routing, switching, forwarding, logical paths and virtual circuits, error handling, congestion control and packet sequencing.	Router and Brouter	IP, IPX, NWLink, NetBEUI
Data Link (2)	Divided into two sub-layers: The Media Access Control (MAC) sub-layer controls how a networked computer gains access to the data and permission to transmit it. The Logical Link Control (LLC) sub-layer controls frame synchronization, flow control and error checking.	Switch, Bridge and Router	Ethernet, PPP, HDLC
Physical (1)	Controls transmission of the bit stream data over the physical medium. Standards for this layer address transmission at the electrical and mechanical level including signal voltage, wiring, voltage duration, etc.	Modem and Repeater	Ethernet, Token Ring, FDDI

## CABLE TYPES

### Type: 10Base5 (Coaxial)

Network: 10Base5 (10B 5)  
 Standard: IEEE 802.3  
 Speed: 10 Mbps  
 Connector: BNC T-Connector  
 Max. Length: 500 meters (1640 ft.)

### Type: 10Base2 (Coaxial)

Network: 10Base2 (10B 2)  
 Standard: IEEE 802.3  
 Speed: 10 Mbps  
 Connector: BNC T-Connector  
 Max. Length: 185 meters (607 ft.)



The 5 to 18 ft. range states that a 10Base5 network can have 1 cable segment connected with a maximum of only 3 of the segments can be connected by computers with a maximum of 28 computers per segment.

Thicknet cables are 5/8 inches thick and have a 50 ohm impedance. Thinnet cables are 1/2 inch thick and have a 50 ohm impedance.

Thicknet is often used as a backbone. A terminator with a resistor (or terminator) for each end of the cable. From the terminator a 50 ohm connector plug into the BNC port on a given device.

### Type: 10BaseT (Twisted Pair)

Network: 10BaseT (10B T)  
 Standard: IEEE 802.3  
 Speed: 10 Mbps  
 Connector: RJ-45  
 Max. Length: 100 meters (328 ft.)

### Type: 100BaseT (Twisted Pair)

Network: 100BaseT (100B T)  
 Standard: IEEE 802.3  
 Speed: 100 Mbps  
 Connector: RJ-45  
 Max. Length: 100 meters (328 ft.)

## Twisted-Pair Cabling (10 Base-T)



Standard Twisted Pair (STP) offers more protection (shielded Twisted Pair (STP)) in that it has a foil jacket that helps prevent outside. Shielding is ineffective from an adjacent wire.

Plastic grade cabling is required when running cable in plenum spaces. The plenum is the space between building floors that is used for air circulation in heating and air conditioning systems. Plastic grade cabling is required for plenum cabling and is required cabling in other a-rated floor. Plenum grade cable is resistant to fire and does not emit poisonous gases when burned.

### Type: 10BaseFL (Fiber Optic)

Network: 10BaseFL (10B FL)  
 Standard: IEEE 802.3  
 Speed: 10 Mbps  
 Connector: ST or FC  
 Max. Length: 2000 meters (6561 ft.)

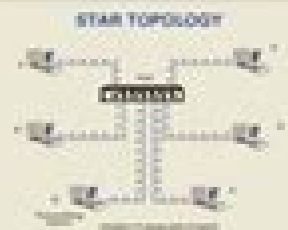
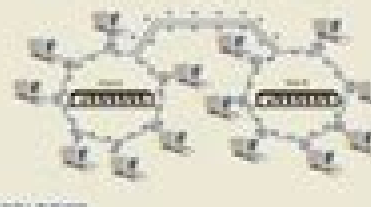
## Fiber-Optic Cable



Fiber-optic cabling has built-in security. Unlike other cable mediums, the physical nature of optical data makes it impossible to connect. About the signal being transmitted within the cable. The only way to detect fiber signal is by accessing the optical fiber itself which is easily detectable by security professionals.

## NETWORK TOPOLOGIES

The physical topology of a network refers to the physical configuration of cables, computers, and network devices. Logical topology is the method used to pass information between network devices.



# Computer Networking Cheat Sheet

**Josh Clark**



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web in november 2007 microsoft released sp1 for exchange server 2007 this service pack includes an additional high availability feature called scr standby continuous replication unlike ccr which requires that both servers belong to a windows cluster typically residing in the same datacenter scr can replicate data to a non clustered server

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web may 25 2011 on windows server 2008 the pre requisite roles and features for the exchange 2007 client access server role can be installed using servermanagercmd.exe launch an elevated command prompt and run the following command  
servermanagercmd /i powershell web server web isapi ext web metabase web lgcy mgmt console

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web dec 13 2022 step 3 click browse to select the exchange 2007 database and then click next step 4 click save and then choose export to office 365 option step 5 enter office 365 credentials and click ok step 6 mailboxes save to office 365 account step 7 this lists the mapped and unmapped source edb mailboxes

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web the error message is not generated if the user manually updates the profile with the new mailbox server or if the user creates a new outlook profile this issue occurs in the release version of exchange server 2010 and in exchange server 2007 service pack 2 sp2 and earlier versions

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