

## What is TCP/IP Model ???

"TCP/IP Model is a standardised Reference Framework for conceptualising data communications between networks"

- ✓ Relevant RFC: RFC1122
- ✓ Also called "Internet Model" or "DoD Model"

## TCP/IP Model Layers & their Functions

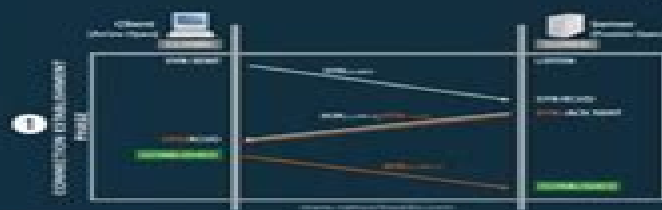
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- 4 APPLICATION** - App Mgmt, Expose Network services to Apps, ...
- 3 TRANSPORT** - End-to-End Communication Mgmt, Transmission, Error Control, ...
- 2 INTERNET** - Logical Addressing, Routing, ...
- 1 NETWORK INTERFACE** - Phys. Standards, Phys. Addressing, Switching, ...

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## TCP 3-way Handshake Process

Network Walks



## OSI Model Vs TCP/IP Model

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OSI Model	TCP/IP Model
Mostly used for reference purposes only	Practical Model in use today
Released in 1984 by ISO	Released in 1970s by DARPA
Each layer participates in <u>error handling</u>	Only Transport Layer handles Errors
Has 7 complete Model (7 Layers)	OSI Model 7 layers only
Session Layer does <u>Connection Management</u>	Transport Layer does <u>Connection Mgmt</u>
Data Formatting is done by <u>Presentation Layer</u>	Data Formatting is done by <u>Application Layer</u>
Uses <u>Horizontal Approach</u>	Uses <u>Vertical Approach</u>
Transport Layer is <u>Connections Oriented</u>	Transport Layer can be <u>Connections Oriented</u> or not
Relay Layer can be <u>Connections Oriented</u> or not	Relay Layer is always <u>Connections Oriented</u>
Services & protocols are clearly defined	Services & protocols are not clearly separated
A <u>connection oriented</u> Model	A <u>connectionless</u> Model
Mostly do not handle network applications	Mostly participate in most network protocols

## Transport Layer Ports

1

Category	Range	Comments
Well Known	0 - 1023	Reserved for protocols & services
Registered	1024 - 49151	For specific services e.g. Port 8080
Private	49152 - 65535	For private purposes

Protocol	Port	Service
FTP	21	File Transfer Protocol
Telnet	23	Terminal Emulation
SMTP	25	Simple Mail Transfer Protocol
SSH	22	Secure Shell
HTTP	80	Hypertext Transfer Protocol
HTTPS	443	Secure Hypertext Transfer Protocol
POP3	110	Post Office Protocol
IMAP	143	Internet Message Access Protocol
LDAP	389	Lightweight Directory Access Protocol
SSL	443	Secure Sockets Layer
SSH	22	Secure Shell
FTP	21	File Transfer Protocol
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POP3	110	Post Office Protocol
IMAP	143	Internet Message Access Protocol
LDAP	389	Lightweight Directory Access Protocol
SSL	443	Secure Sockets Layer
SSH	22	Secure Shell

## Protocols at each TCP/IP Layer

1

4 APPLICATION	SMTP, POP3, FTP, HTTP, Telnet, SSH, ...
3 TRANSPORT	TCP, UDP
2 INTERNET	IPv4, IPv6, OSPF, RIP, BGP, ICMP, ...
1 NETWORK INTERFACE	WiFi, USB, BT, RJ45, SON, MW/RF, Ethernet, PPP, FR, ...

**Encapsulation:** "Preparing & passing the data by any Upper layer to the layer below it, is called Encapsulation"

(Means going from the application layer all the way down to the physical layer)

**Decapsulation:** "Decoding data while going Upwards from the physical layer till application layer is called decapsulation"

## TCP/IP Model

1 APPLICATION	APPLICATION PRESENTATION SESSION
TRANSPORT	TRANSPORT
INTERNETWORK / INTERNET	NETWORK
NETWORK INTERFACE (Subnet Layer)	DATA LINK PHYSICAL

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## Devices at each TCP/IP Layer

4 APPLICATION	Web Browsers (PC, Server, PDA, Smart Phone, ...)
3 TRANSPORT	Firewalls (Same), Load Balancers, ...
2 INTERNET	Routers, L3 Switches, ...
1 NETWORK INTERFACE	Hubs/Swaps, Modems, L2 Switches, Bridges, ...

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# Tcp Ip Msce Study Guide Instructors Manual

**Charles M. Kozierok**



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**MCSE : TCP/IP STUDY GUIDE.**  
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