



SKILLS EXPLORER

WE EXPLORE IT--YOU EXTRACT IT

www.SkillsExplorer.in

Part-2

Network Models

Network Models

Why we need models

- ❖ System in one network cannot communicate with the system in the another network.
- ❖ Communication among different OS in Different Networks.
- ❖ To meet the Current demand of size etc.

Network Models (contd..)

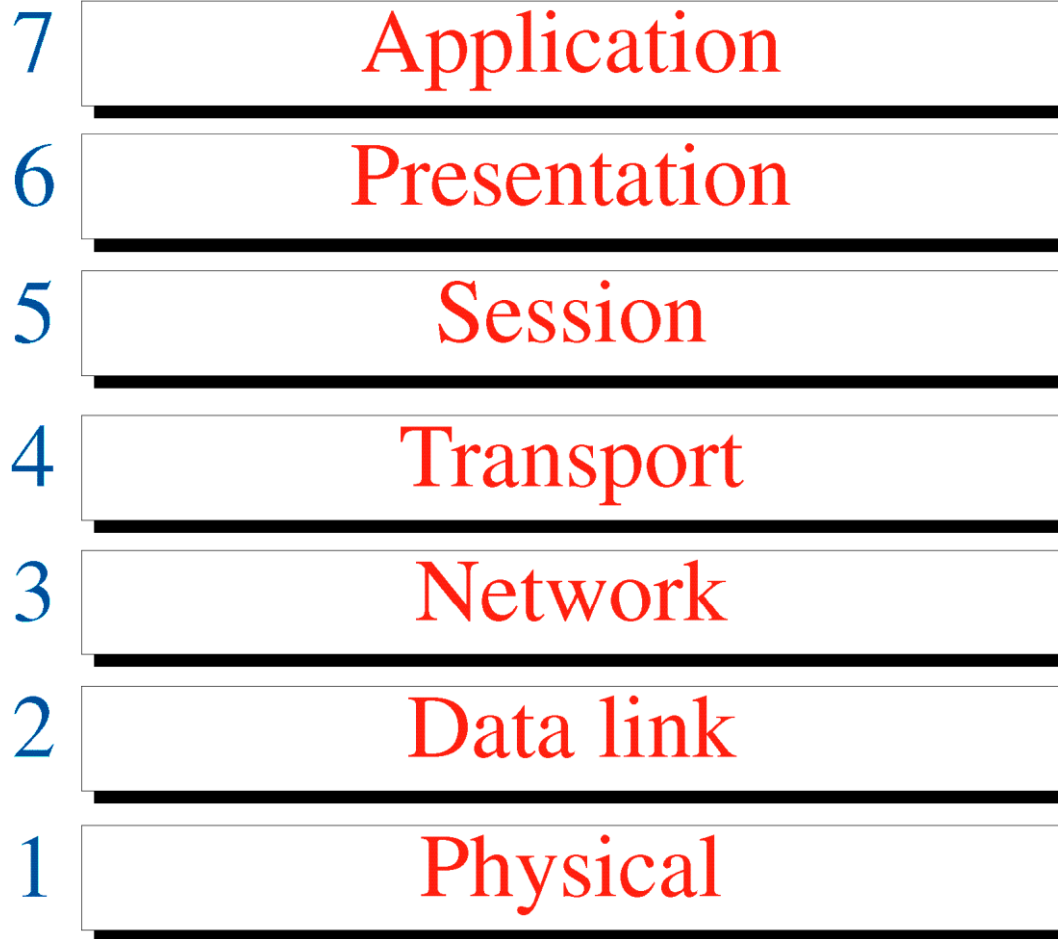
There are two types of network Model:-

- ❖ OSI Model (theoretical Model)
- ❖ TCP/IP Model (practical Model)
- ❖ First TCP/IP Model was build before OSI Model.

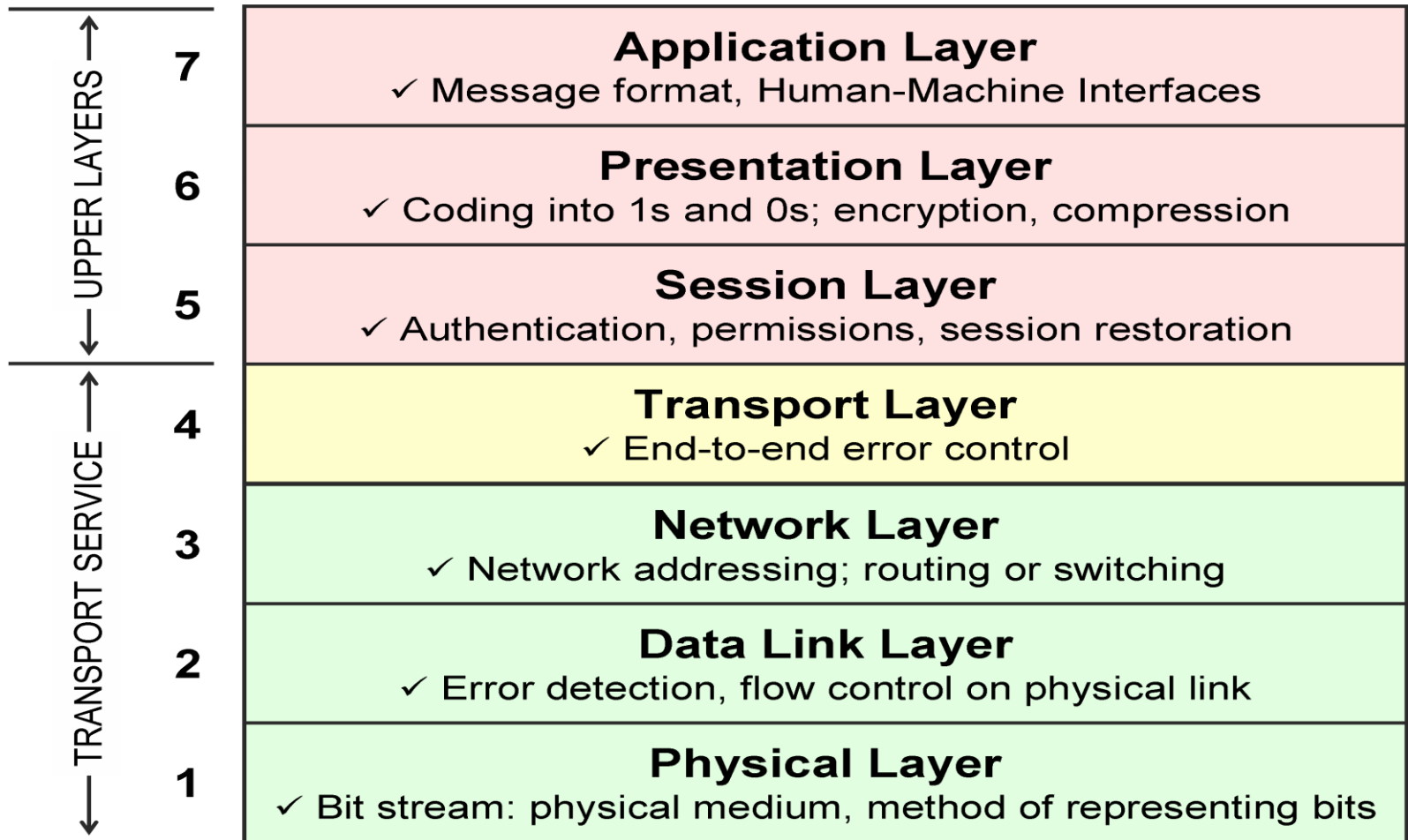
OSI Model

- ❖ It is known as Open Systems Interconnection model.
- ❖ It consist of **7 layers**.
- ❖ It is theoretical model not practical.
- ❖ In this first model was build then problems are define and fixed.
- ❖ Each Layer Performs a Unique Function
- ❖ Each Layer Has Its Own Protocols.

OSI MODEL

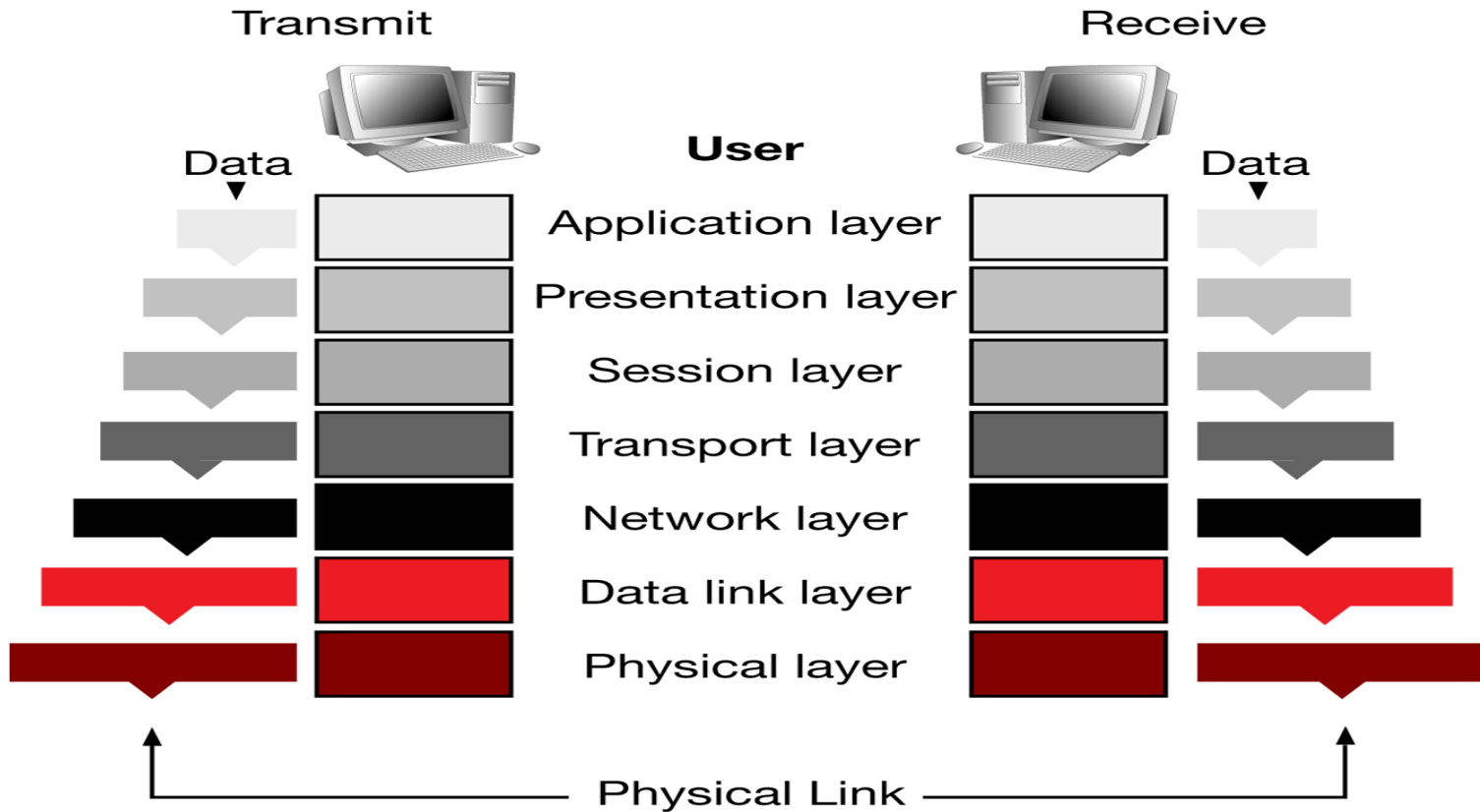


OSI Model



OSI MODEL

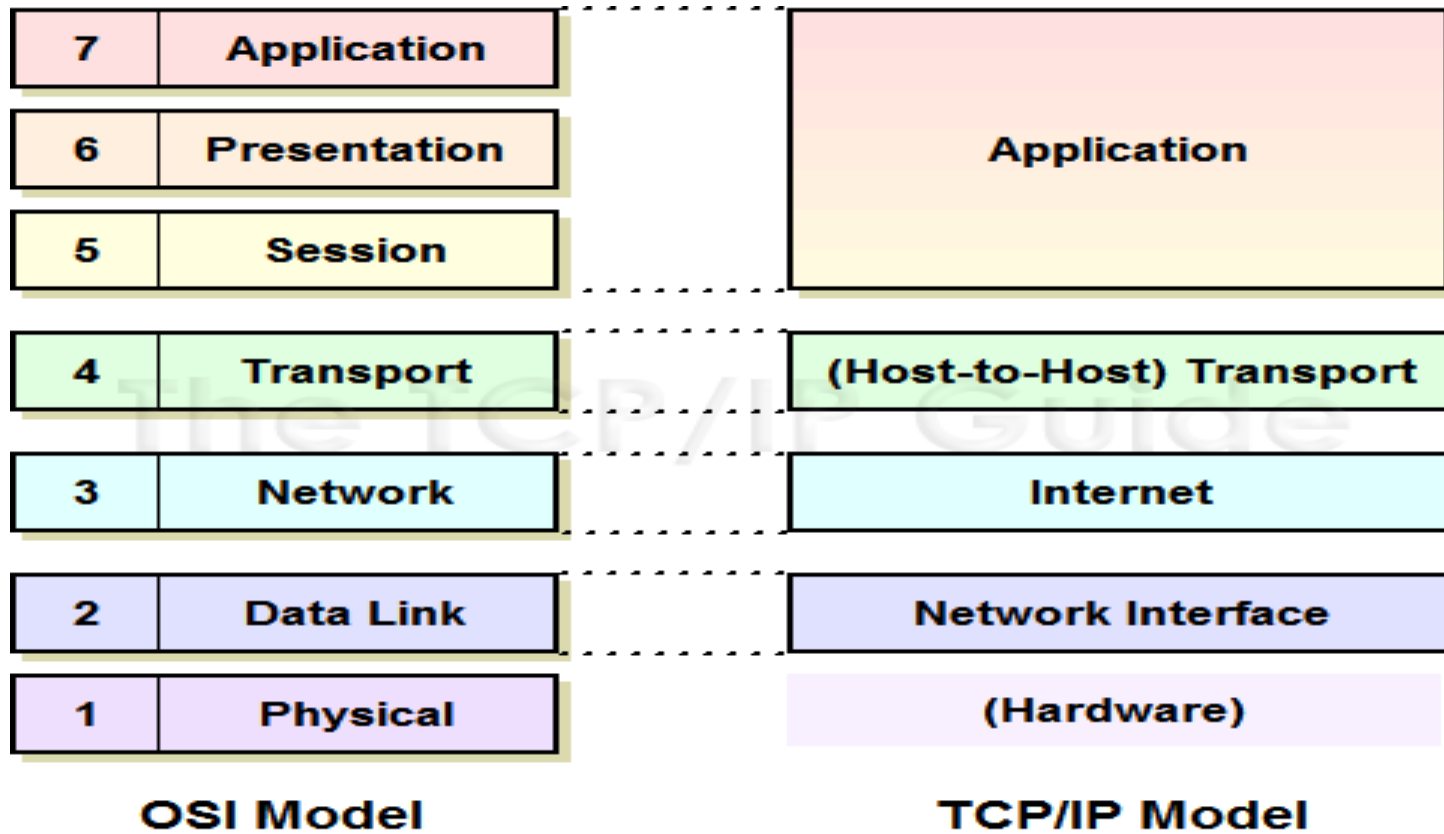
The 7 Layers of OSI



TCP/IP MODEL

- ❖ TCP/IP means transmission control protocol and internet protocol.
- ❖ It consist of 4 layers.
- ❖ It is practical model.
- ❖ First the problems are defined then model is prepared.
- ❖ Each Layer Performs a Unique Functions.

TCP/IP and OSI Model Layers



Network Devices at OSI Layers

Application Layer	Gateway
Presentation Layer	Gateway
Session Layer	Gateway
Transport Layer	Gateway
Network Layer	Router, Gateway
Data Link Layer	Bridge, Gateway
Physical layer	Repeater ,hub, Gateway

ASCII and EBCDIC Coding

- ❖ It is **American Standard Code** for Information Interchange.
- ❖ It is used by **Presentation Layer** for transfer the data from one system to another system. Example: Modem
- ❖ EBCDIC is **Extended Binary Coded Decimal Information Code**.
- ❖ It is an eight-bit character set used on most computers manufactured by IBM.

Authentication and Authorization

- ❖ **Authentication** is any process by which a system verifies the identity of a User.
- ❖ **Authorization** is the process of giving someone permission to do or have something.



Authentication

Who you are

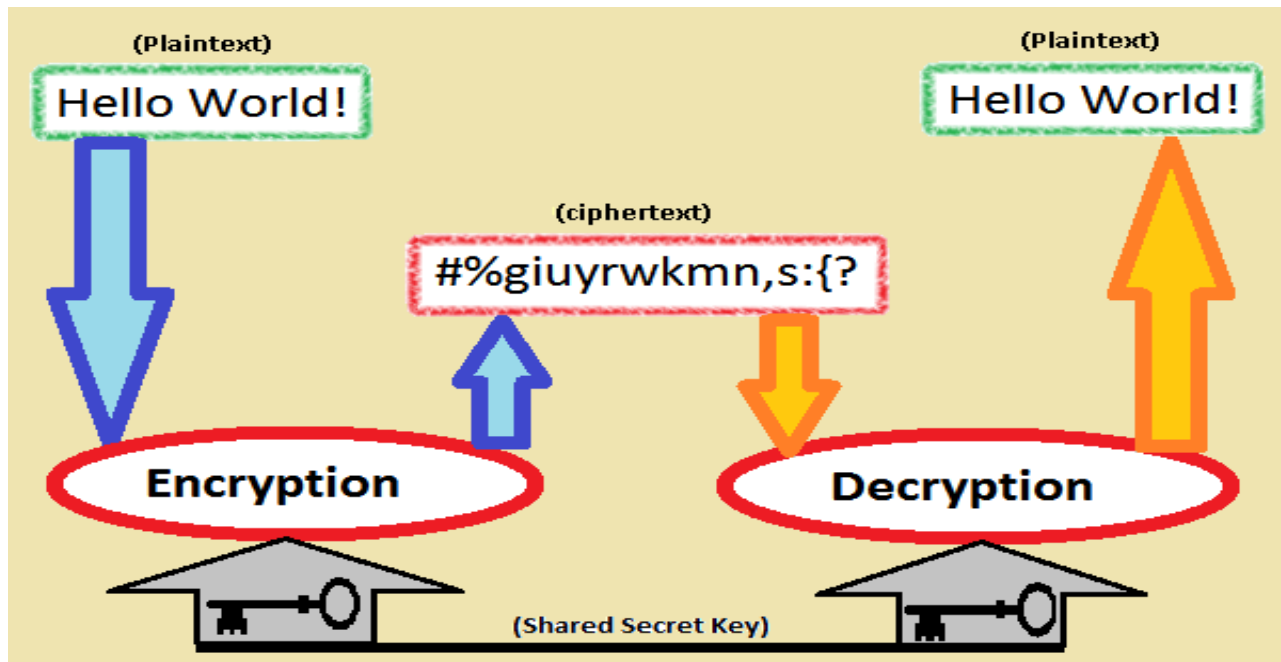


Authorization

What you can do

Encryption and Decryption

- ❖ Encryption is the conversion of data into a form, called a cipher, that cannot be understood by unauthorized people.
- ❖ Decryption is conversion of Cipher into original form of message.



SUBSCRIBE TO OUR

You  **Tube**
CHANNEL

Operating system in Detail



SKILLS EXPLORER STUDY CENTER

 **Subscribe** 13

84 views

 Add to  Share  More

 7  0

Published on Apr 20, 2016

Operating system (Detailed)for IBPS, SBI, COMPETITIVE EXAM

<https://www.facebook.com/SkillsExplorer/>

SHOW MORE

