

فرادرس

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آموزش الفبای شبکه های کامپیوتری (Network+)

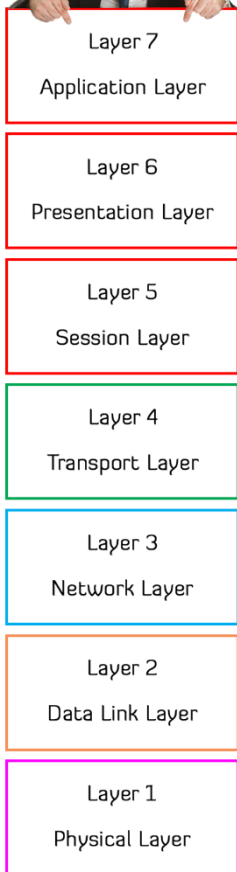
مدرس:

مهندس ولی زاده

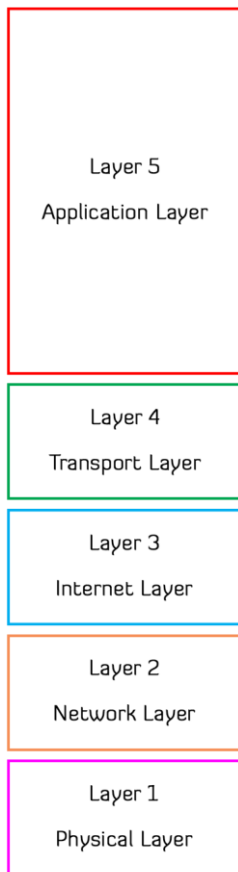
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TCP/IP

OSI Model



TCP/IP Stack



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TCP/IP

Layer 4: Transport Layer

- Logical Port Address
- Connection Oriented and Connectionless
- Error Control
- Flow Control
- Buffering

TCP,UDP,DCCP,SCTP,RSVP,*more...*

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TCP/IP

Layer 4: Transport Layer

□ Logical Port Address

- assigned by the Internet Assigned Numbers Authority (IANA)
(or by Internet Corporation for Assigned Names and Numbers (ICANN) before March 21, 2001)

- **Range 0–65535**

- ✓ **Ports 0-1023** - well-known ports
- ✓ **Ports 1024-49151** - registered ports: vendors use for applications
- ✓ **Ports > 49151** - dynamic / private ports

- ✓ **Socket**

ip address + port → 192.168.1.100:21
109.162.54.13:3389

IANA port assignments published at
<http://www.iana.org/assignments/port-numbers>

TCP/IP

Layer 4: Transport Layer

❑ Connection Oriented and Connectionless

Transmission Control Protocol (TCP) vs User Datagram Protocol (UDP)

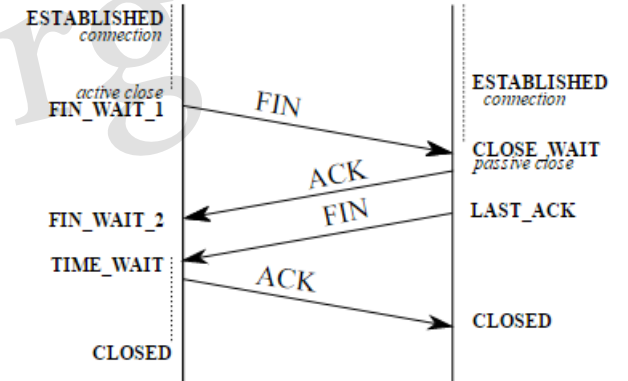
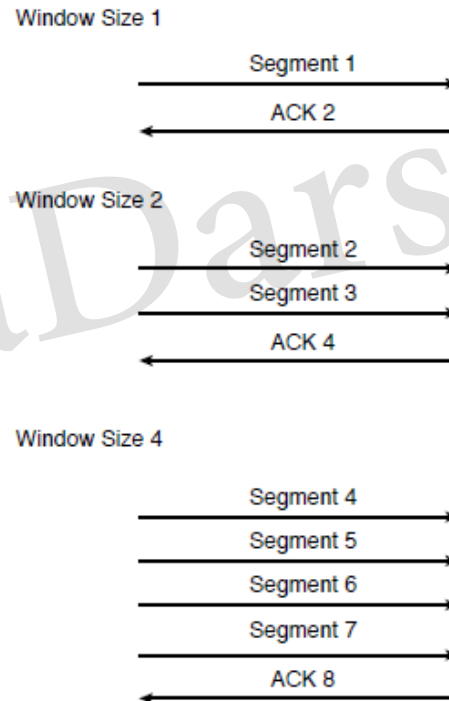
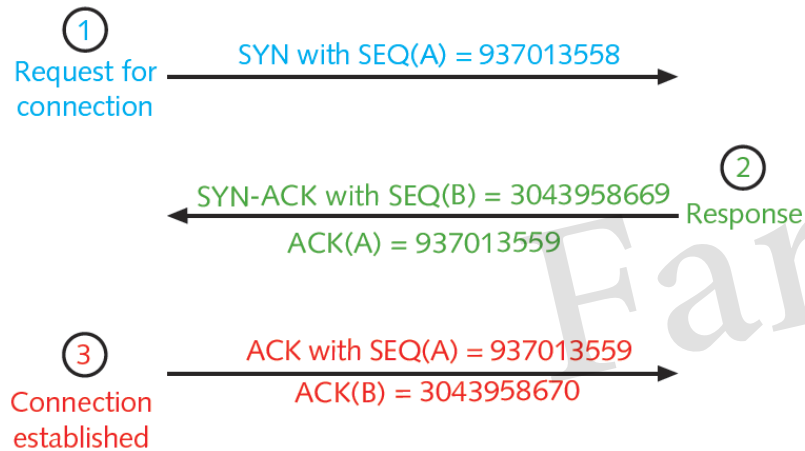
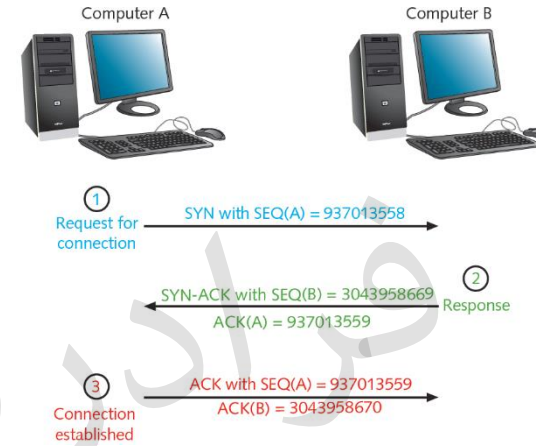
- Connection-oriented
- Reliability
- Flow control
- Multiplexing

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TCP/IP

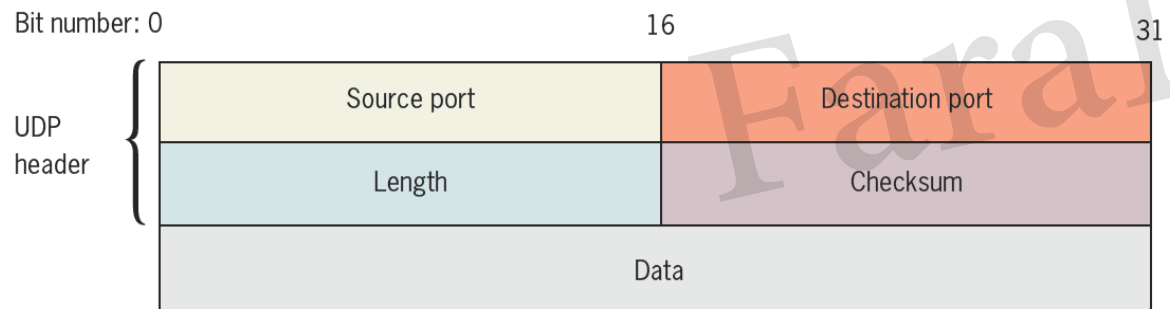
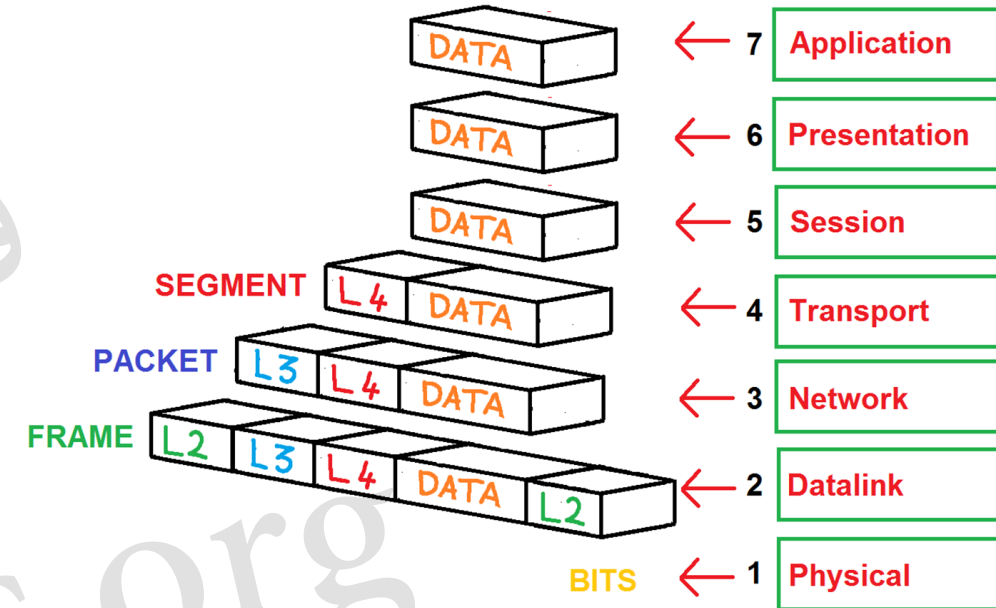
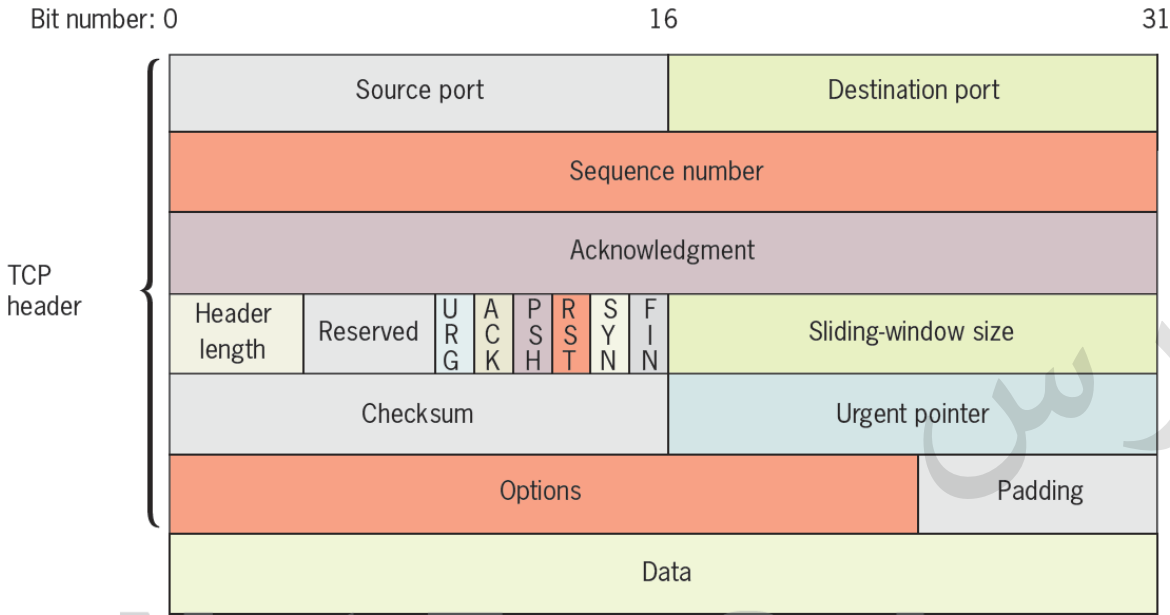
Layer 4: Transport Layer

TCP 3-Way Handshake (SYN,SYN-ACK,ACK)



TCP/IP

Layer 4: Transport Layer



این اسلاید ها بر مبنای نکات مطرح شده در فرادرس

«آموزش نتورک پلاس (Network+)»

تهیه شده است.

برای کسب اطلاعات بیشتر در مورد این آموزش به لینک زیر مراجعه نمایید

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