

APP. LAYER INTRODUCTION

CyberQuince

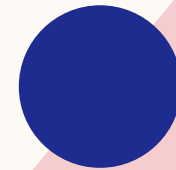
TOPICS

What is the App. Layer?

Application Layer's place in the OSI model

Application Layer Functions

Common Protocols

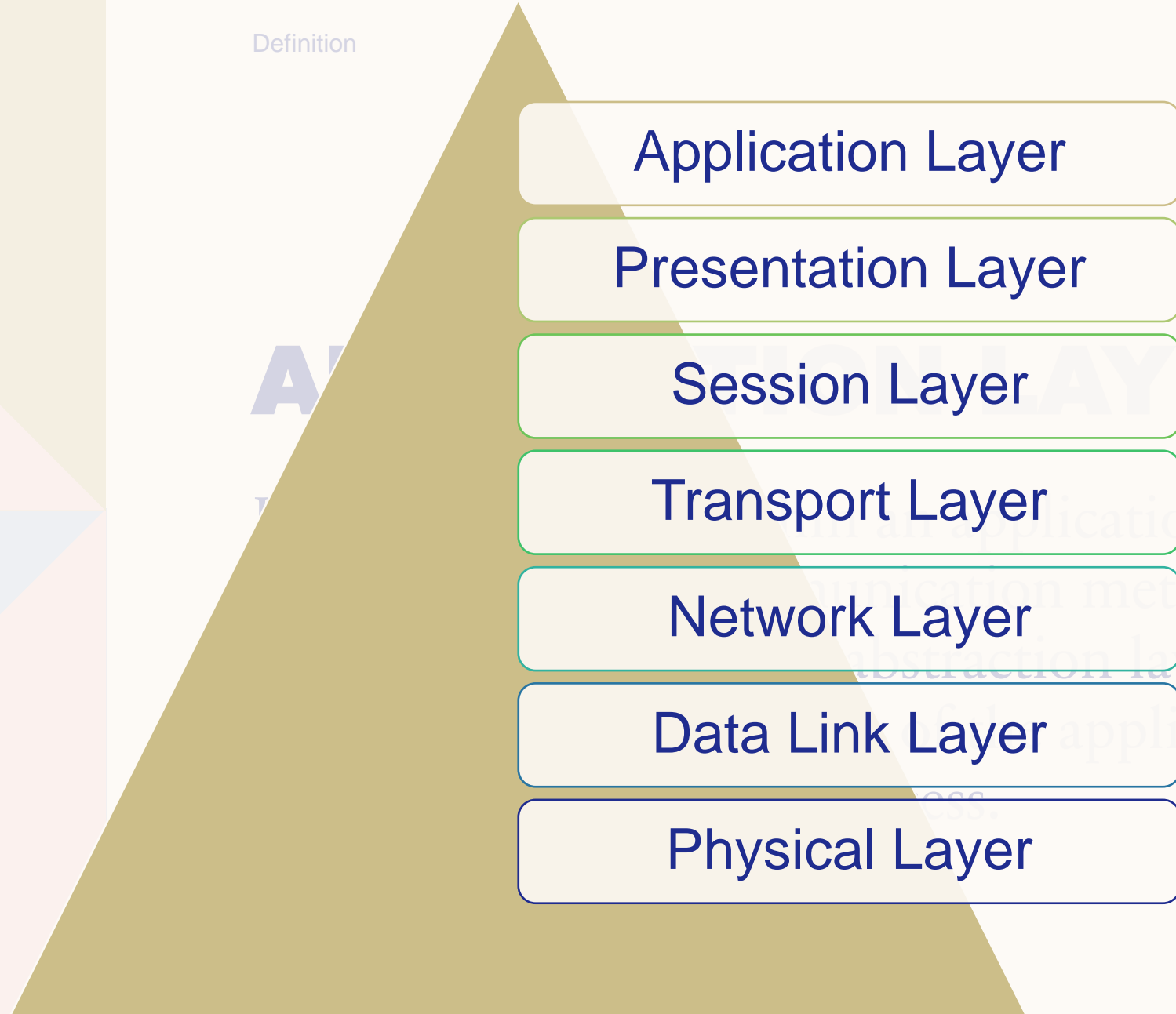


APPLICATION LAYER

Application layer ensures an application can effectively communicate with other applications on different computer systems and networks.

APPLICATION LAYER

It is a component within an application that controls the communication method to other devices. It is an abstraction layer service that masks the rest of the application from the transmission process.



APP. LAYER FUNCTIONS

- ensures that the receiving application is identified, reachable and ready to accept data;
- when appropriate, enables authentication between devices for an extra layer of network security;
- defines the types of messages exchanged, for example, request messages and response messages;
- ensures agreement at both ends on error recovery procedures, data integrity and privacy;
- determines protocol and data syntax rules at the application level; and
- presents the data on the receiving end to the user application.

APP. LAYER PROTOCOLS

Application	Protocol	Port	Underlying Transport Protocol
Web	HTTP	80	TCP
File Transfer	FTP	20, 21	TCP
Email	SMTP, POP3, IMAP	25/587, 110, 143	TCP
Remote Access	Telnet	23	TCP
Internet Telephony	SIP, RTP, Skype	5060, 5061, 16384-32767...	UDP or TCP



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