

Section 1.2 Computer Networks Fundamentals

*Cracking OSCP: Your Roadmap to Ethical
Hacking Success*

WHAT'S A PROTOCOL?

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NETWORK PROTOCOL

- ✓ A network protocol is an established set of rules that determine how data is transmitted between different devices in the network. Essentially, it allows connected devices to communicate with each other, regardless of any differences in their internal processes, structure, or design.

A HUMAN ANALOGY

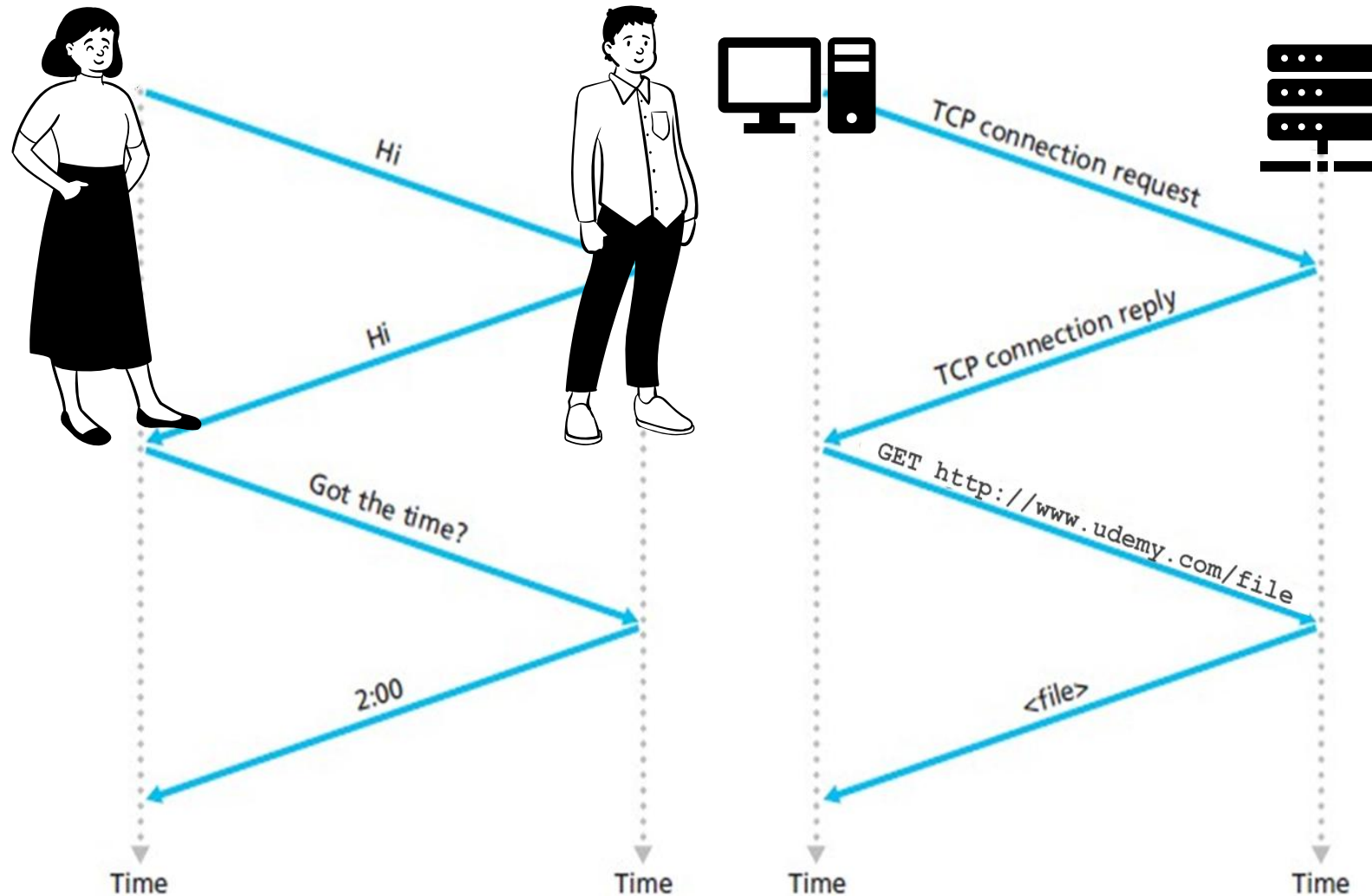
Alice and Bob

Alice and Bob are fictional characters commonly used as placeholders in discussions about cryptographic systems and protocols, and in other science and engineering literature where there are several participants in a thought experiment.

https://en.wikipedia.org/wiki/Alice_and_Bob

A HUMAN ANALOGY

Alice and Bob vs. Client and Server



POPULAR PROTOCOLS

1. TCP (Transmission Control Protocol)

TCP is a connection-oriented protocol that ensures reliable and ordered delivery of data between devices on a network. It establishes a connection before data transfer and manages the flow of information.

2. UDP (User Datagram Protocol)

UDP is a connectionless protocol that focuses on speed and efficiency rather than guaranteed delivery.

3. HTTP (Hypertext Transfer Protocol)

HTTP is the foundation of data communication on the World Wide Web. It defines how messages are formatted and transmitted, and how web servers and browsers should respond to various commands.

POPULAR PROTOCOLS

1. SMTP (Simple Mail Transfer Protocol)

SMTP is a protocol for sending email messages between servers. It works collaboratively with other email protocols like POP3 and IMAP to enable the sending and receiving of emails.

2. POP3 (Post Office Protocol version 3)

POP3 is an email retrieval protocol that allows a user to download their email messages from a server to a local device. It is one of the methods used by email clients to access emails.

3. FTP (File Transfer Protocol)

FTP is a standard network protocol used to transfer files between a client and a server on a computer network. It supports both uploading and downloading of files and is commonly used for website maintenance and data transfer.

POPULAR PROTOCOLS

1. Telnet

Telnet is a network protocol used for remote terminal connections. It allows a user to log in to a remote system as if they were physically present at that system, providing text-based communication.

2. SSH (Secure Shell)

SSH is a cryptographic network protocol for secure data communication, remote command-line login, remote command execution, and other secure network services between two networked computers. It provides strong authentication and encrypted communication.

Thank You! 😊 ❤️

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