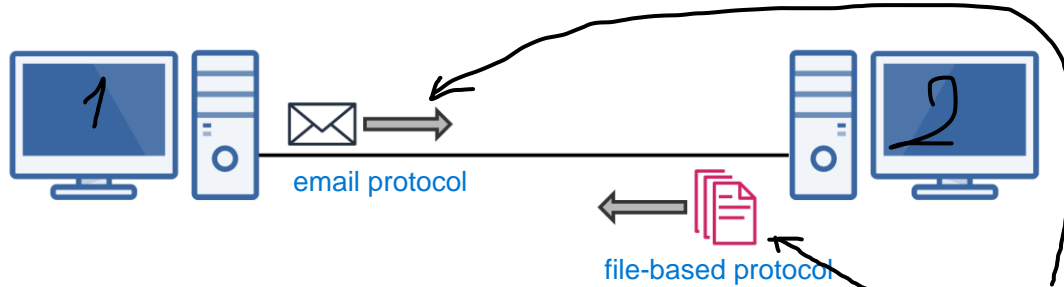


Computer Networking Protocols



- Computers communicate with each other with **network protocols**.
- **Protocols** are **rules** governing how machines **exchange data** and enable effective **communication**.

Some Everyday Examples

- When you call somebody, you pick up the phone, **ensure there is a dial tone**, and if there is, you dial the number.
- When you drive your car, you obey the rules of the road.

Protocols Continued

- **Physical Protocols:** describe the medium (wiring), the connections (RJ-45 port), and the signal (voltage level on a wire).
go hand in hand when we put a network together
=> If we don't have variety of physical protocols and logical protocols, a network is not going to operate properly
- **Logical Protocols:** software controlling how and when data is sent and received to computers, supporting physical protocols.
- Computer networks depend on many different types of protocols in order to work properly.
- Example Common TCP/IP Suite of Protocols:
 - **Web Communication:** HTTP
 - **E-mail:** POP3, SMTP, IMAP
 - **File Transfers:** FTP