

COMMUNICATION PROTOCOLS .

TCP

| 8 Popular Network Protocols | | |
|-----------------------------|---|--|
| Protocol | How does It Work? | Use Cases |
| HTTP | <p>TCP Connection HTTP REQ HTTP RESP</p> | <p>Web Browsing</p> |
| HTTP/3 (QUIC) | <p>UDP Connection 1 2 3 4</p> | <p>IoT Virtual Reality</p> |
| HTTPS | <p>TCP Connection public key session key encrypted data</p> | <p>Web Browsing</p> |
| WebSocket | <p>HTTP Upgrade Full Duplex</p> | <p>Live Chat Real-Time Data Transmission</p> |
| TCP | <p>SYN SYN + ACK ACK</p> | <p>Web Browsing Email Protocols</p> |
| UDP | <p>REQUEST RESPONSE</p> | <p>Video Conferencing</p> |
| SMTP | <p>sender SMTP Server receiver</p> | <p>Sending/Receiving Emails</p> |
| FTP | <p>Control Channel Data Channel</p> | <p>Upload/Download Files</p> |