

# Networking for Security

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## 1. Introduction to Networking

- Networking connects devices to share resources and data.
- Understanding networking is essential for cybersecurity.

## 2. TCP/IP Model

- Application Layer
- Transport Layer (TCP, UDP)
- Internet Layer (IP)
- Network Access Layer

## 3. Important Protocols

- HTTP/HTTPS – Web browsing
- FTP – File transfer
- SMTP – Email sending
- DNS – Domain resolution

## 4. Ports & Firewalls

- Port 80 – HTTP
- Port 443 – HTTPS
- Port 22 – SSH
- Firewalls filter network traffic.