First Principles: Domain Separation, data hiding, simplicity, and least privilege

1. Time: 9 to 11
2. Lecture: Networking
   1. OSI Model
   2. Network Protocols
      1. Application Layer Protocols
         1. HTTP
         2. FTP
         3. Sniffing traffic
      2. Transport Layer Protocols
         1. TCP
            1. Threeway Handshake
            2. Closing a connection
            3. RST Flag
3. Activities
   1. Activity: Use Netcat to make an HTTP request by hand
   2. Activity: Use Netcat to interact with an FTP server
   3. Activity: Sniffing HTTP/FTP traffic in Wireshark
   4. Activity: Observe the threeway handshake in Wireshark
   5. Activity: Observe a connection closing in Wireshark
   6. Activity: Use netcat to try to connect to a port that isn’t open and observe RST being sent back