Written Lab 1: Internetworking

Key Networking Terms:

1. Presentation Layer- This layer is responsible for the translation of data to and from the application. Also allows different applications of different computers to understand one another, through its translation.
2. Switch- Networking device that splits collision domains on a LAN. They are useful for reducing traffic on a network.
3. Hub- A fairly outdated networking device. Mainly used for troubleshooting and connecting a few devices without a worry for bandwidth/traffic. Hubs can “group” collision domains together (in a way).

Procedures:

* + 1. The Application layer determines the availability of communicating partners and resources needed to connect.

1.1.16- Encapsulation Order: Bits, Frame, Packet, Segment

1.3.1- A: CD=1 BD=1 , B: CD=2 BD=1 , C: CD=4 BD=1 , D: CD=3 BD=3

Conclusions and Discussion:

The readings helped correct a misconception I had about the application layer. I thought the application layer was only really useful to the application, but it actually handles the “flight check” before using a network application. To clarify, it confirms availability (where it is flying and the green light to go) and checks if there are enough resources (fuel, plane, pilot). I also learned what an access list was, I thought it was a whitelist for users, but it seems the whitelist is towards packet types.

This chapter has brought up some questions, like how analog data gets transferred over digital connections (like music streams).

Feedback:

A very well written lab report, John. You have identified key network terms both from the hardware and software standpoint. Excellent use of metaphorical thinking with regards to end-to-end network communications in the Conclusions and Discussions.

The lab procedures include paraphrasing questions and responses to the questions you found interesting or important.

As part of Written Lab 1.3.1, please provide either a verbal description or embed visuals showing the devices which require identification of CDs and BDs. ﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿You may revise and resubmit for an update in activity grade.

The questions the chapter has you thinking about and interested in investigating further online are noted in the Conclusions & Discussion section. Happy exploring online!