Research Assessment 11

Date: January 31, 2019

Subject: Networking Fundamentals

APA Citation:

[Network Direction]. (2018, April 19). Introduction to Networking | Network Fundamentals Part

1 [Video File]. Retrieved from https://www.youtube.com/watch?v=cNwEVYkx2Kk

Assessment:

This week for my research assessment, I used one of the resources that my mentor recommended to me during our last mentor visit. I was supposed to write this assessment over my mentor visit this week, but my mentor said we could meet in person tomorrow rather than having our visit over a phone call today. So instead of trying to find a whole new article to write my research assessment for this week, I watched one of the videos from a youtube channel called Network Direction that my mentor told me to watch. My mentor also recommended a website called Juniper that teachers Network and Cybersecurity courses, but I do not have the login information for those classes. So when I see him tomorrow, I will ask him for the login info for the website to learn from those lessons. Other than that, from the video that I watched today, I learned a lot about how a network includes switches, routers, and different devices.

The question that I kept asking myself while I watched this video is: how is networking related to cloud architecture at all? I mean I can see how networking uses the cloud to store and retrieve information, but why do I need to learn this before going forward? This is one of the questions that I have in mind to ask my mentor during my mentor visit tomorrow. Along with this, over the course of the video I learned a lot of examples that define how a network works and what the different resources in a network are. I also learned the difference between a wired network that uses an ethernet cable and the wireless network that we know as wifi. In this video, I also learned about what switch was and how it works. I had previously heard about switches in my cybersecurity class, but I never really understood what the role of it was. I finally understood how it is connected to the router to receive packets and send them to the right devices. Initially in the olden days, there was a similar product that was known as a hub, which lots of people in the field usually confuse the switch with, but it is important to know that they are different. Another thing I learned about in this video was protocols. In a network there is usually a sender and a receiver. The sender and receiver have to speak a specific language to understand what is being transferred from one to another. This language to translate the info being transported is called a protocol. There are many different protocols such as HTTP, SMTP, TCP, and many more. Ultimately, I learned about a Local Area Network, aka LAN. A LAN describes how there are many different devices that are connected to switch and router in a network, and how that network can expand.

Overall, the main thing that I took away from this video is a visual of how a basic network works, and how it can be enlarged in a large company. I am beginning to understand

more about what a network looks like and how it operates, but I still have more research to conduct over this topic as well as cloud computing upon completing the basics. Tomorrow at my mentor visit, I look forward to talking about what I took away from my research, and get the login for the other resources for my research.