# Network Fundamentals Paper

# Individual: Network Fundamentals Paper

#  I choose to go with Kudler Fine Foods,it is a specialty food store located in the metropolitan area of San Diego, and it has three other locations such as; La Jolla, Del Mar and Encinitas. These storesall have approximately 8,000 square feet of retail space located in a fashionable shopping center. Known for having the very best domestic and imported food, it is divided into five different departments: Fresh Bakery and Pastries, Fresh Produce, Fresh Meat & Seafood, Condiments and Packaged Foods and Cheese and Specialty Dairy Products.

# Current Network Fundamental Characteristics and Components

#  With technology moving forward,Kudler Fine Foods is in need of an upgrade to their entire networking system. Thecentral server is located at the La Jolla Store. It consists of a 100 base T Ethernet backbone with a dedicated OC 1 SONET line that connects them to the other two stores in Del Mar and Encinitas. Their Internet connection consists of a 25 Mbps line provided by Time Warner Cable Business Class. Their mainframe server is an HP Blade Server system c3000 running Unix OS with SAP Retail Software, Print/File Communication capabilities along with Email, Storage and their Web Server. A 10 TB Network Attached Storage (NAS) is also attached to the server. Three Point of Sale (POS) terminals are connected to a POS Server that is attached to the 100 base T line. All terminals are complete NCR RealPOS 82XRT terminals with scanners, cash draws, touch screens and printers. Their store also runs NCR POS management software. There are a total of 19 computers in the store: 13 of which belong to corporate administration and the remaining 6 for store management. All computers have the following configuration:

# Dell Vostro

# i3 Processor 3.3GHz

# 4 GB of RAM

# Windows 7 OS

# 500 GB HD

# 7200 RPM

# CD/RW drive

# 802.11n

# There are three printers located in the back office:

# HP CM2320nf Multifunction

# HP P3015n B&WLaser Printer.(x2)

# A total of 19 VOIP phones for fast communication and an APC Smart UPS 5000VA 208V supports the entire server room in case of power failure.Del Mar and Encinitas have the same configuration as each other:

# 100 Base T Ethernet line (backbone)

# Dedicated OC 1 SONET to La Jolla

# 25 Mbps Internet line (Time Warner Cable Business Class)

#  Both stores also have an HP Blade Server c3000 running Unix OS, LAN OS with communications, email, storage and web server capabilities. Three POS terminals are also connected to a POS server that is attached to the 100 base T line. The terminals are the same NCR RealPOS 82XRT with scanners, cash draws, touch screens and printers. Currently running only 6 computers all of which are Dell Vostro equipped with an i3 Processor 3.3GHz; 4GB of RAM, The OS is Windows 7, with a 500 GB Hard Drive 7200 RPM and a CD/RW drive utilizing a802.11n wireless NIC. Each store has one printer server which is an HP Color LaserJet CM2320mf Multifunction they also have 6 VOIP phones and an APC Smart UPS 5000VA 208V in case power failure.

# References

#  Kudler Fine Foods Information Technology. (2007, 2010, 2011, 2013). Information Technology Networks — Del Mar. Retrieved from <https://ecampus.phoenix.edu/secure/aapd/cist/vop/Business/Kudler2/intranet/networks-delmar.asp>