**NOTES:**

\*\*\* commands are in .txt file

**VOCABULARY:**

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| **TERMS:** | **DEFINITIONS:** |
| **IP address** | **Internet Protocol Address-** identifies the location of the device for other devices to find them |
| **Subnet Mask** | A 32-bit number that separates the IP address into the host and the network |
| **Gateway** | **Hardware** or **software** that controls data passing from one network to another |
| **DNS** | **Domain Name System-** The naming system for services and computers. It assigns domain names corresponding with various info |
| **Network Switch** | A type of hardware connecting devices on a computer network with packet switching to forward and receive data |
| **Network Router** | **A network router can connect** two ormore networks and subnetworks and **manage network traffic** |
| **Access Points** | A device that creates a **wireless local area network** for network access |
| **MAC address** | MAC addresses are in place to identify network, assigned to a network interface controller for an **address during communications** |
| **Ports in network addressing** | Ports in network addressing are the **virtual points** where network connections **begin and end** |
| **Types of Networks** | Multiple network types are put in place because there may be different connection requirements in different hardware and software connections |
| **WAN** | **Wide Area Network-** connects multiple networks between offices, data centers, cloud, etc. |
| **LAN** | **Local Area Network-** connects buildings within proximity of each other using Wi-Fi and Ethernet |
| **PAN** | **Personal Area Network-** connects electronic devices personal to the user or within their immediate space |
| **MAN** | **Metropolitan Area Network-** connects computers within a metropolitan (urban/city) area |
| **VPN** | **Virtual Private Network-** Provides extra security to protect corporate networks |
| **CLI** | **Command Line Interface,** to control the systemsuch as:   * Powershell * Terminal |
| **GUI** | **Graphic User Interface:** Controls the system, in a visual manner  Ex: File explorer; Drag & drop |