For the Costing/Budgeting of our recommended hardwares with a desired budget of Two million four hundred thirty-three thousand two hundred twelve pesos and eighteen centavos

**Servers:**

For servers We have1 Dell R750 Server for 335,000

We recommend the **Dell PowerEdge R750 server** as it supports up to two 3rd Generation Intel Xeon Scalable processors, each with up to 40 cores, providing exceptional processing power for demanding workloads. The server also features **32 DDR4 DIMM slots**, supporting high memory capacity,

**Hardware & Devices**

For Routers we have TP-Link ARCHER AX50 AX3000 with the price of ₱ 9,600 per unit and a total quantity of 10. The total cost is ₱ 96,000

Archer Ax50 provides higher Wifi speeds than ax10 which is the current existing hardware, ax50 has **2402 Mbps on the 5 GHz band** and **574 Mbps on the 2.4 GHz band**

**AX50** also provides **better network security** with its **TP-Link HomeCare™ Antivirus**, offering **malware protection**, **parental controls**, and **advanced security features** to safeguard your devices and network.

**Switches:**

For switch we have TP-Link TL-SG1024 with the price of ₱7,350 and a total quantity of 7. The total cost is ₱51,450

the **TL-SG1024** offer more scalability as it has 24 ports than the current existing switch. TL-SG1016 with16 ports.

**Computer:**

For Computer we have intel core i5-11400, for ram 16GB DDR4 3200MHz AND A STORAGE OF 1TB SSD, the estimated cost per unit is ₱30,000 and a total quatity of 63 so the total cost is ₱ 1, 890, 000

**Firewall:**

For firewall we have Fortinet FortiGate 30e with a total quantity of 2 and a total cost of ₱ 30,000.

The FortiGate supports external 3G/4G modems that allow additional or redundant WAN connectivity for maximum reliability. Fortigate is also A built-in dual-band, dual-stream access point with internal antennas is integrated on the FortiWiFi 30E and provides speedy 802.11n coverage on both 2.4 GHz and 5 GHz bands.

**In Software Related to networks**

Based on the respone we got from the interview they they are planning to get a vpn.

So recommend express vpn that cost ₱762.18 per month

ExpressVPN is one of the best VPN software to protect your data from third parties like your internet service provider and hackers.

It has private DNS, expressvpn runs its own private, encrypted DNS on every server, making your connections both safe and faster expressvpn also has one of the best encryption Besides hiding your IP address and mixing your traffic with that of other users, ExpressVPN also encrypts your traffic between secure VPN servers and your computer. This keeps your data safe from being read by third parties.

ExpressVPN uses AES (Advanced Encryption Standard) with 256-bit keys—also known as AES-256. It’s the same encryption standard adopted by the U.S. government and trusted by security experts worldwide to protect classified information.