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**Tugas 1**

Di asumsikan di dalam 1 gedung terdapat tiga lantai terdapat web server, db server, mail server, 1 buah router, 1 switch, 1 wifi, 4 computer, 2 handphone, rencanakan dan buat spesifikasi kebutuhan barang yang ada.

Tugas harus memaparkan :

1. Kebutuhan teknis, pengguna yang menggunakan jaringan
2. Spesifikasi perangkat jaringan

**Jawaban**

1. Dalam jaringan di gedung ini, saya menggunakan IP 192.168.0.1/28 dengan class C dan subnet mask 255.255.255.240
2. Server

* Up to two Intel Xeon E5-2600 or E5-2600 v2 processors
* Up to 512 GB of RAM with 16 DIMM slots for memory-intensive applications
* Four or eight SAS/SATA/SSD drives
* 2 PCI Express Gen 3 slots and two 1GE LAN interfaces on the motherboard
* Trusted Platform Module (TPM) for authentication and tool-less access

1. Switch Cisco 2960

* Form Factor Rack Mountable
* Ports Qty 24
* Data Transfer Rate 100 Mbps
* Data Link Protocol Ethernet, Fast Ethernet
* Compatibility PC

1. PC

* Processor: Minimal Core i3/Core i5
* Ram: Minimal 2Gb/Recommend 4Gb.
* Harddisk: Minimal 500Gb.
* Aksesoris: Dvd Rw, Speaker.
* VGA: 2Gb.
* Montitor: 16 Inch.

1. Access Point

* Power Supply 802.3af/802.3at PoE
* Dimensi 143 × 86 × 20 mm
* Antenna 2 Dual-Band Antennas

2.4GHz: 2\*4dBi

5GHz: 2\*4dBi

* Wireless Standards IEEE 802.11a/b/g/n/ac
* Frequency 2.4GHz and 5GHz
* Signal Rate 5GHz: Up to 867Mbps, 2.4GHz: Up to 300Mbps