Network Basic

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- ➢ IP Addressing
    - ○ IPv4
        - ▪ 32 bit
        - ▪ Nomor Network | Nomor Host
    - ○ IPv6
        - ▪ 128 bit
        - ▪ ::1 (localhost)

- ➢ Network Devices:
    - ○ Hub (No MAC Tables)
    - ○ Switch (with MAC Tables) : L2 (Managable /VLAN) & L3 (Managable/VLAN + Simple Router)
    - ○ Router

OSI Model	TCP/IP Model
Application Layer	Application layer
Presentation Layer	
Session Layer	
Transport Layer	Transport Layer
Network Layer	Internet Layer
Data link layer	Link Layer
Physical layer	

TCP/IP layer

Application Layer	NOMOR PORT, HTTP(80, 443), FTP (21), … .nomor port: 1 s/d 65535 (16 bit)
Transport Layer	TCP (handal) atau UDP (tidak handal)
Internet Layer	IP Addressing (L3) : IPv4, IPv6
Link Layer	MAC Address (L2) (6 x 8 bit): sudah ditentukan oleh organisasti pengatur Media network (Wireless 2.4GHz, 5.2GHz, UTP, Fibre Optic)

Name	Speed	Indoor Range	Frequency	Released
Wireless AC	1 Gbps	115 Feet	5 GHz	2013
Wireless N	300 Mbps	230 Feet	2.4 GHz, 5 GHz	2009
Wireless G	54 Mbps	125 Feet	2.4 GHz	2003
Wireless B	11 Mbps	115 Feet	2.4 GHz	1999

UTP:

Catatan Kuliah akan diupload di https://github.com/bana-handaga/[nama Mk]