Network Devices

1. Repeater: layer 1 device, Deals with physical layer. REgenerates the signal in a single LAN.
2. Hub: Layer 1 device. Physical layer. Always broadcasting
3. Switch: connects two devices in a single LAN. Layer 2 . Data link layer. Stores MAC address table. Unicasting
4. Bridge: Layer 2. Data link layer. Connects 2 LAN segments that are the same protocol. Regenerates signals. Has mac address reading capability
5. Router: Layer3. Network layer. Takes forwarding decisions based on IP address.
6. Multi-layer switch (Layer 3 Switch): Layer 2, data link layer. Forwarding decision based on MAC address.
7. Brouter: bridge + router→ can act as layer 2 bridge or layer 3 router.
8. Modem:
   1. Modulator: Digital info carried on analog carrier signal.
   2. DEmodulator: retrieves the transmitted signal.
9. Firewall (Security device): filters the packets based on the IP address, port numbers, application info… (filters incoming and outcoming traffic)