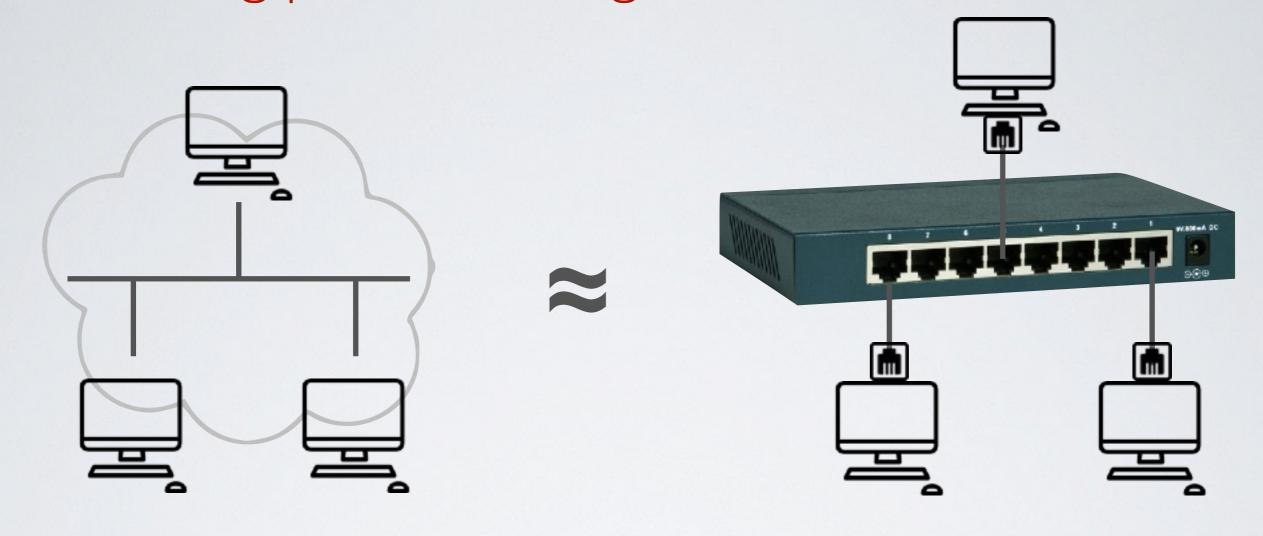
Preventing packet sniffing over Ethernet



Hub: broadcast all messages on all ports

Switch: (smart HUB) forward messages on specific port based on their MAC addresses

isolate Ethernet traffics (no straightforward packet sniffing)

Packet sniffing over a wireless network

- → Encrypt message before sending them over the air
- WEP is obsolete

Wire	Wireless		WPA2		WPA3	
Security		WPA	Personal	Enterprise	Personal	Enterprise
Authentication		Shared Key	Shared Key	RADIUS Server	Shared Key	RADIUS Server
Cryptog	ryptography and CCMP and AES RC4		I 28-bit CCMP and AES	192-bit CCMP and AES		
Security		Broken	External attackers only	Good	Better, Simultaneous Authentication of Equals	
Yea	Year 2003 20		004	2018		