OT 5.1 - The Internet

# Elementary

The Internet is a global network of computers connected to each other by Internet protocols.

What can you do on the Internet?

1. Research: Pre-Internet -> Go to the Library and read a book.
2. Buy/Rent -> Download Videos: Pre-Internet -> Go to a local video store.
3. Play Games: Pre-Internet -> Go to a local game store and buy games or go to an arcade.
4. Sell Products: Pre-Internet -> Start a physical store and hire people to sell your products.
5. Internet Banking: Pre-Internet -> Go to your local bank and do whatever you need to do at the bank.

# Basic

4 Major Organizations that contribute to the Internet are:

1. Academic ~~Major Software Companies~~
2. Government ~~Commercial Organizations~~
3. Business ~~Search Engine Providers – Browser Companies~~
4. Individual ~~Social Networking Organizations~~

Who owns/runs the Internet?

1. Nobody, the Internet is not owned by anybody. It is a large network of computers, routers, and cables. Although when accessing the Internet, one must work with Internet Service Providers (ISPs), this may seam like the ISPs own the Internet, but they don't, they are merely providing access to it.

No one person or organization runs the Internet. Instead, the Internet Society (ISOC), a private not for profit group, makes recommendations guiding its growth. Many organizations connect their networks into the Internet to make this worldwide network possible. The Internet Society decides the protocols or rules that make the Internet work, such as the Transmission Control Protocol (TCP) and Internet Protocol (IP).

# Sound

The intranet is a private network of computers; the Internet is the global network of computers. Intranets can connect to the Internet but the Internet may not be able to access the intranet.

LAN vs. Intranet

No, LAN and Intranet is not the same thing.

LAN is a small connection of computers in a relatively small area like in an office building or school.

Intranet is a private Internet network that supports all common protocols such as TCP/IP, HTTP and other standard Internet protocols. Intranet is used to add Internet like services to LAN.

# Competent

“This Jem, is the internet.”: At the beginning of the video when ‘The Internet’ is introduced. That box is not the internet, if one little black box was the internet, it wouldn’t be much of a global network of computers.

“This is the whole internet”: Following on from the above.

“The Internet is wireless”: The Internet is not completely wireless; there are thousands of miles of wires under the oceans, linking countries together.

“The internet doesn’t weigh anything”: The Internet weighs tons in computer equipment.

“The elders of the internet”: Hahahahaha.

# Extensive

ISOC (Internet Society) -> Deploy360 Programme

The Internet Society Deploy360 Programme provides real-world deployment information for key Internet technologies. They aim to bridge the gap between the IETF standards process and final adoption of those standards by the global operations community. We find, create and promote resources that are easy to understand and quickly actionable by the IT professionals responsible for the implementation of new technologies and standards.

The ISOC are currently promoting the adoption and use of IPv6, DNSSEC(Domain Name Security), anti-spoofing, TLS (Transport Layer Security), and Securing BGP(Boarder Gateway Protocol).

# Bibliography

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