





مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20% مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

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لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع
لا تنسونا من دعائكم

ProgrammingAdvices.com

Mohammed Abu-Hadhoud



اساسيات مهمه لكل مبرمج

الشبكات Networks



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26+ Years of Experience

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Computer Foundations

What is Networks?

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What is Network?

Network: is a group of connected computer and devices.

- For example, the computers, phones, and other devices that your family owns are all part of your home computer network.
- When you get a new tablet and enter in the Wi-Fi password, you're joining that tablet to your home computer network.

Why do we need Network?

- Devices in the same network can easily communicate and share resources with each other.
- For example : you can control your TV with your mobile, or you can stream videos from your mobile to your TV.



Computer Foundations Network Types

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Network Types





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1- LAN

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What is LAN?

LAN: Local Area Network that has a group of connected devices.

- LAN is a type of network made up of nearby computers.
- A LAN can have anywhere from a few devices (like a home network) to hundreds of devices (like a school or hospital)
- Large organizations like colleges can have multiple LANs - maybe one per building.



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Communicating on LAN

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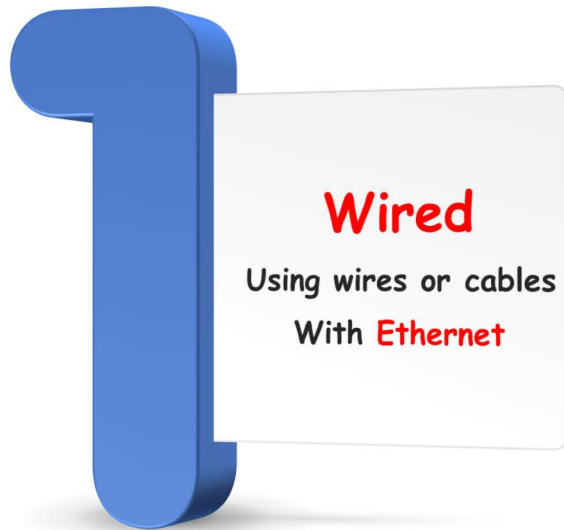
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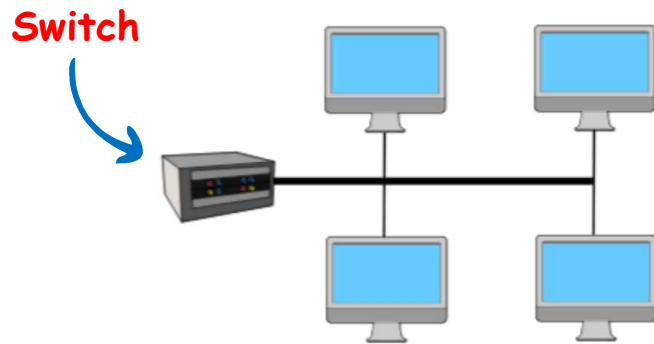


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Connection Types



Communication Ways



Ethernet

Rules that computers follow for communicating on a wired network



Wireless

Rules that computers follow for communicating through a radio signals

Wi-Fi is a popular way to connect wirelessly to a network.

Wi-Fi: Wireless Fidelity

Those Rules are called:

Protocol

Protocol: is a standard set of rules for how devices communicate through wires or wireless



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2- WAN

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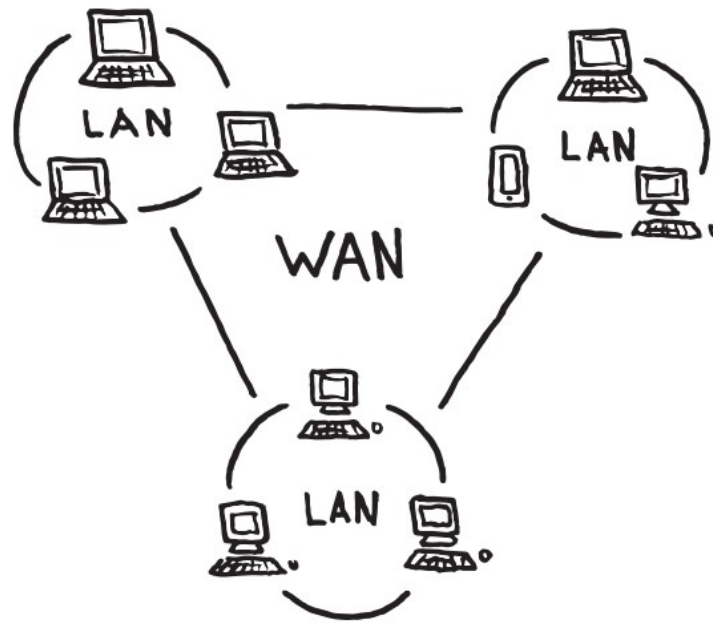
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What is WAN?

WAN: Wide Area Network.

- WAN is made of connected LANs that are far from each other (like in different parts of the country or world).
- WANs connect thousands or even millions of devices.



Homework



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Answer the following questions:

- What is network?
- Why do we need network?
- What is LAN vs WAN?
- How computers communicate together?
- What is Ethernet?
- What is Wireless?
- What is Protocol?
- What is Wi-Fi?
- Wi-Fi stands for what?

Thank you 😊