

اللهم صلي وسلم وبارك علي سيدنا محمد
وعلي اله وأصحابه أجمعين





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

يجب عليك مشاهدة فيديو الدرس كاملا

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

ProgrammingAdvices.com

Mohammed Abu-Hadhoud



اساسيات مهمه لكل مبرمج

الشبكات Networks



Mohammed Abu-Hadhoud

26+ Years of Experience

MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD



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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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Connection Types

1

Wired
Using wires or cables
With **Ethernet**

Ethernet

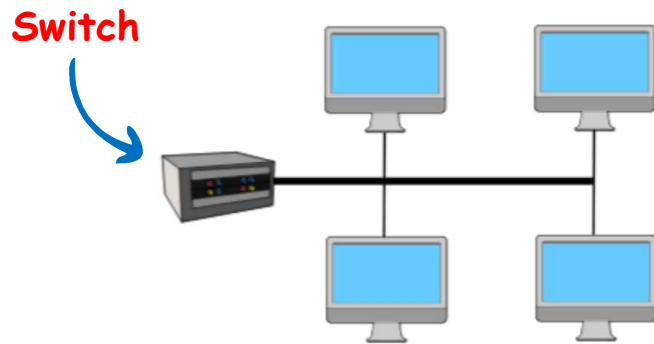
كمبيوترات متوصله مع بعض باسلاك

2

Wireless
Without wires using
Wi-Fi

بدون اسلاك زي واي فاي الفون كذا
او اللاب

Communication Ways



Ethernet

Rules that computers follow for communicating on a wired network



Router

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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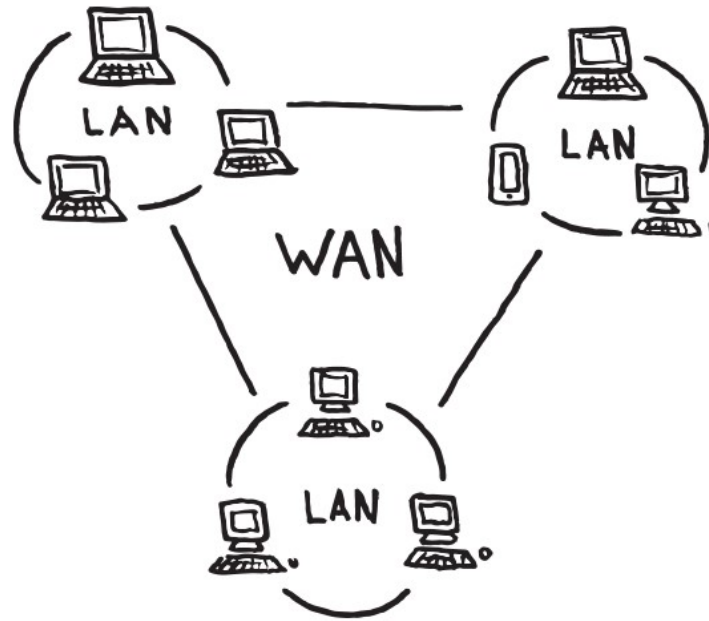
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What is WAN?

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.



<https://youtube.com/playlist?list=PLH-n8YK76vliuIZoWvHL7AvtrDV7hR3He&si=X6GYvdL5m6WEe0jo>

بص ي صديقي دي بلاي ليست فيها شرح النيتورك حلو جدا
شوف بس الوقتي اول فيد فيها اللي هوا مقدمه ف الشبكات
حوالي 50 دقيقه وبعدها هنشوف الباقي بعدين لانه متوسع شويه متقلقش يعني

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 😊