

# Welcome Cyber#1

**Reader:**        [reader.codaisseur.com](https://reader.codaisseur.com)

**Slack:**        [codaisseur-school.slack.com](https://codaisseur-school.slack.com)

**Discord:**     <https://discord.gg/qyehPh>

# Today's schedule

- |               |   |
|---------------|---|
| 19:00 - 20:00 | <input type="checkbox"/> Computer networks recap        |
| 20:00 - 20:15 | <input type="checkbox"/> Break                          |
| 20:15 - 20:45 | <input type="checkbox"/> Our first LAB (wireshark)      |
| 20:45 - 21:00 | <input type="checkbox"/> Break                          |
| 21:00 - 21:30 | <input type="checkbox"/> Discuss the LAB, DNS, Homework |

**Computer networks...**

# A **computer** has....



# A computer has....



**MAC address  
&  
IP-address**

**A network is....**

# A network is....



**A network is....**



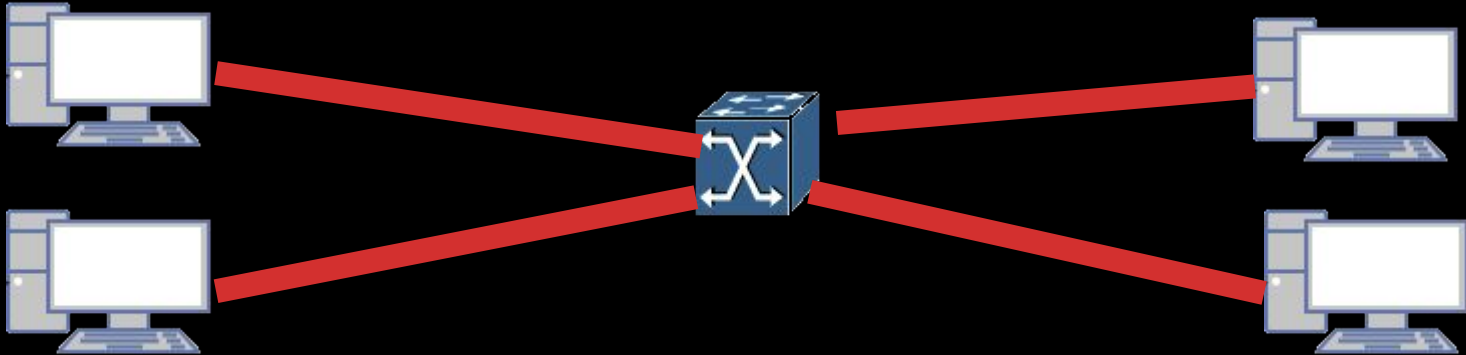
**But also:**



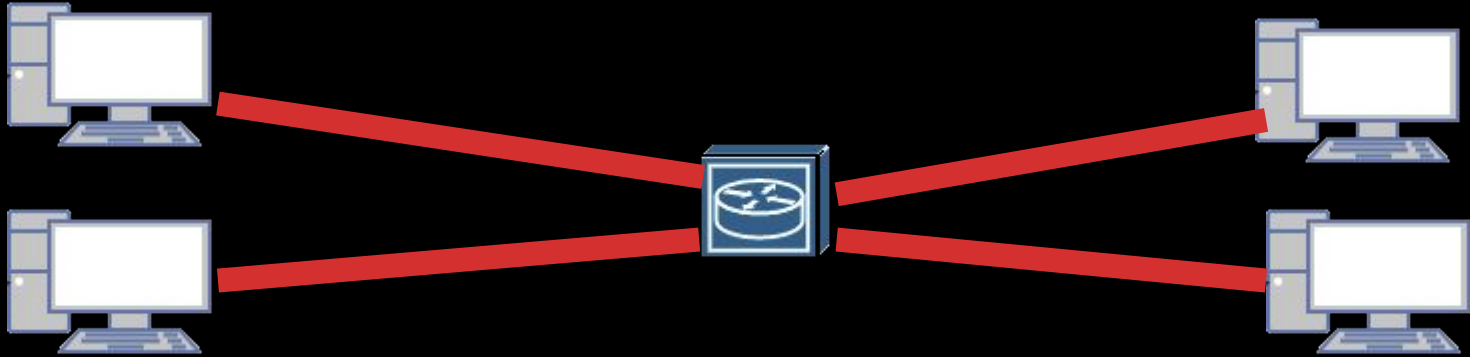
# A network is....



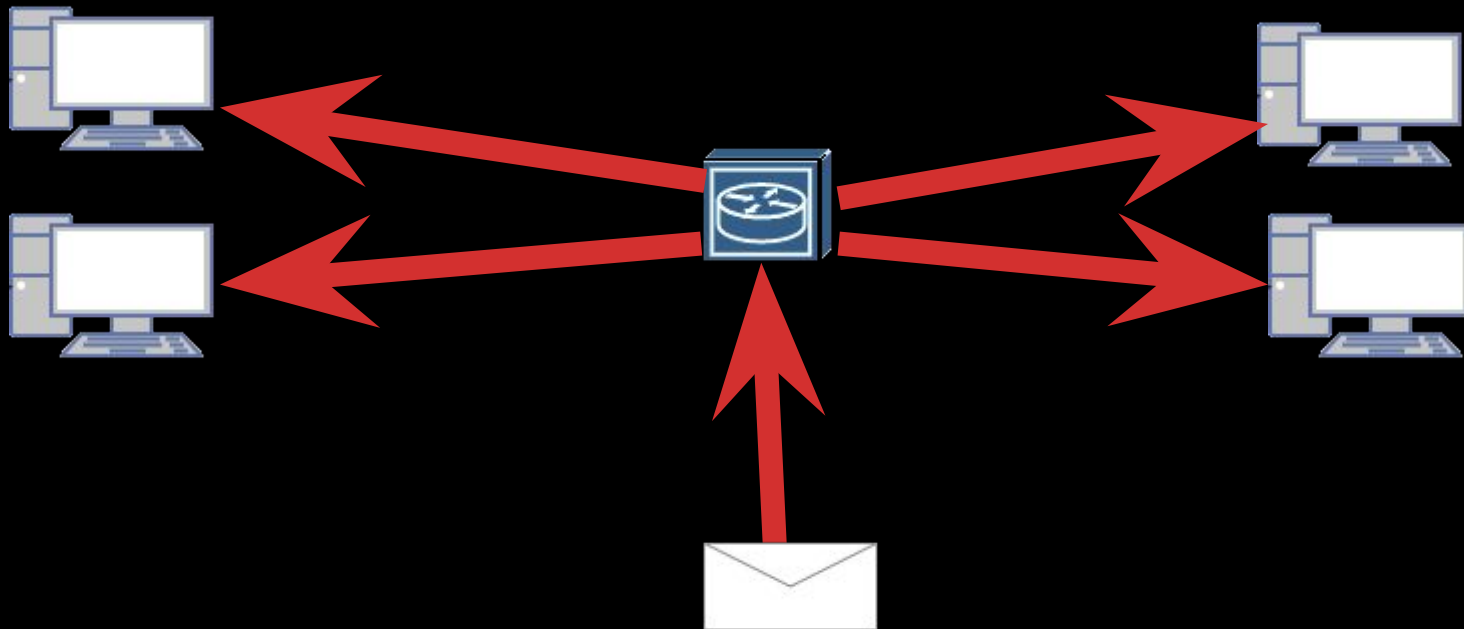
## But also:



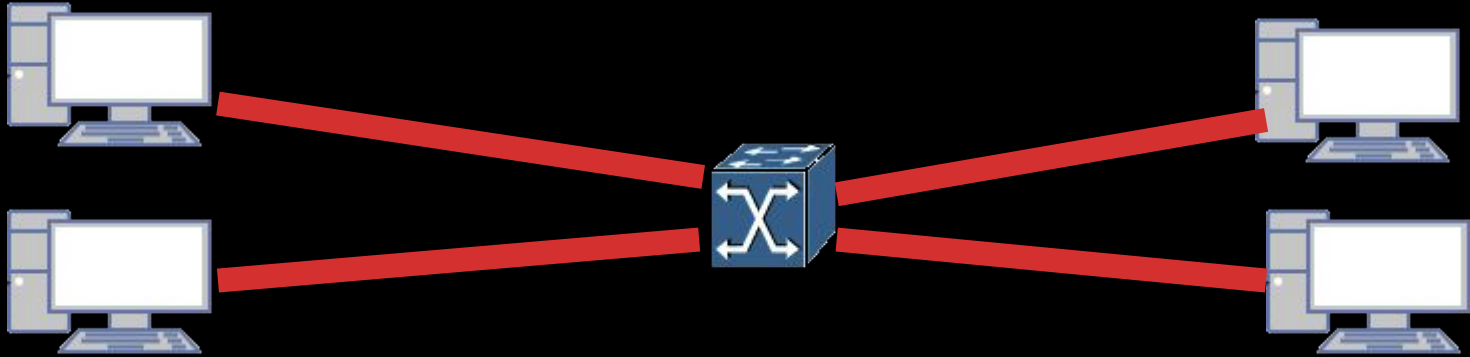
# A **hub** does...



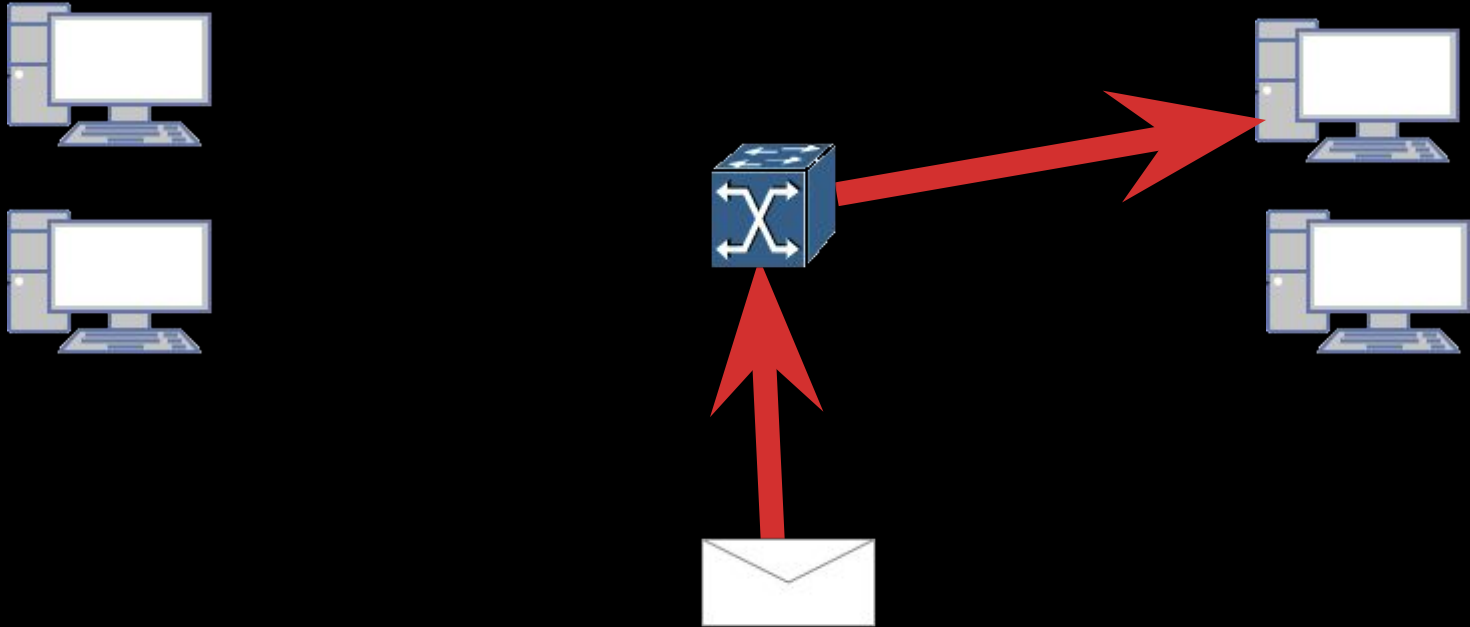
# A hub does...



# A **switch** does...



# A **switch** does...



# A Packet is...



**A Packet has a...**



# A **Packet** has a...



**Payload**  
[Image]  
[Text]  
[videoFrame]



**A Packet also has a...**



# A **Packet** also has a...

**From**

**TTL**



**Type**

**Timestamp**

**To**

**Checksum**

**An IP-address look like...**

# An **IP-address** looks like...

\*\*\*.\*\*\*.\*\*\*.\*\*\*

**192.168.0.101**

**An IP-address is used to...**

**Give a street name  
and number to a  
house**

**A Subnet mask looks like...**

# A Subnet mask looks like...

\*\*\*.\*\*\*.\*\*\*.\*\*\*

255.255.255.0

**A Subnet mask is used to...**

**Make streets**



**A MAC -address is given by...**

**A MAC -address is given by...**

**Manufacturer**

**A MAC -address looks like...**

**A MAC -address looks like...**

**A0:B1:C2:D3:E4:F5**

**A MAC -address contains info**

<https://macvendors.com/>

**BC:30:D9:7d:f4:00**

**00:1B:63:25:EA:01**

**A MAC -address used in...**

**A MAC -address used in...**

**Local network**

**A IP -address used on...**



**A IP -address used in...**

**The internet**

The **internet** is a...

**Network**  
**of**  
**Networks**

**The link between a MAC-address and IP-address are stored in a:**

**Arp-table**

**15 Minute Break**

**LAB TIME**

**10 Minute Break**

**Discuss the LAB**

**What is DNS?**



# Domain Name system

**The End**