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What is Networking?

Begin learning the fundamentals of computer networking in a fun, bite-sized and interactive module.

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What is Networking? - 1st of 10

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What is Networking?

Networks are simply things connected. For example, your friendship circle you are all connected because of similar interests, hobbies, skills and so on.

Networks can be found in all walks of life.

- A city's public transportation system
- Infrastructure such as the national power grid for electricity
- Routing and getting your neighbors
- Postal systems for sending letters and parcels

But even your laptop, in computing, networking is the same thing, just different in technology and devices. Take your phone as an example for the reason that you have it in your pocket.

Well, even your four-wheeled car can make use of some other wireless like that below.

In computing, a network can be formed by any number of devices to be linked. These devices include everything from your laptop and phone to security cameras, traffic lights and even smart home appliances.

Networks can be integrated into our everyday life. Be it getting data for the weather, adjusting electricity to be used when you have the right of use or even in a road. Because networks are an essential part of modern day, networking is an essential concept to grasp in cybersecurity.

Now that we have learned what a network is and how it is defined in computing (just devices connected), let's explore the Internet.

The Internet is a global network that consists of many, many small networks within itself. Using your example from the previous task, let's now imagine that Alice made some new friends named Zayn and Toby that she wants to introduce to Dick and Jim. The problem is that Alice is the only person who speaks the same language as Zayn and Toby. So Alice will have to be the messenger!

11

```
user@kali:~$ ping -c 4 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(140) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=64 time=7.11 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=64 time=6.34 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=64 time=6.11 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=64 time=6.11 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss
rtt min/avg/max = 6.11/6.19/7.11 ms
user@kali:~$ ping -c 4
```

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