



CYBER SECURITY

UNIT I

Ever heard of
Cyber Security?

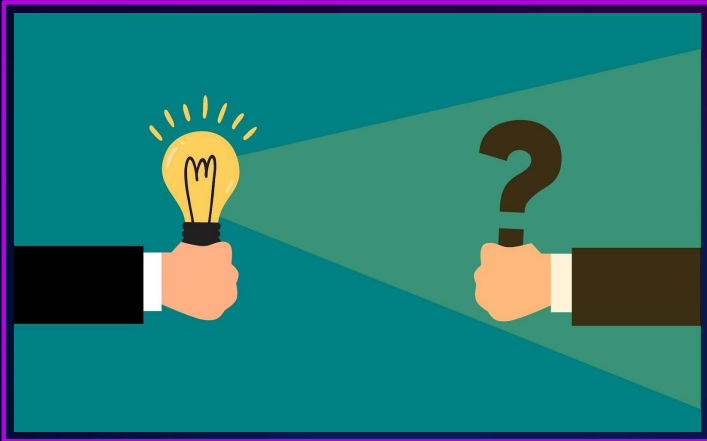


Let's say there is no gate o
,
entrance always to avoid



So, we usually use a gate as a result no one could enter the property without our consent.
This also avoids the continuous need to keep a watch.





The example above teaches us how we should protect our devices and personal belongings with proper safety and security

CyberSecurity is the same lock and security for our digital system, computers and machines.



Now, we're ready
to learn
CyberSecurity



What is
Cyber Security?



Cybersecurity is the safe and responsible use of information and communication technology. It is not just about keeping information safe and secure, but also about being **responsible** with that information.



As information infrastructure and Internet became bigger and more complex , it became critical to maintain systems functional and alert to **security issues**.





“The difference between a man of early age and a man of this age is nothing but Internet.”
- DI Charles

Do you want to learn
what is Internet and
how it works ? If yes,
let's begin.



What is
Internet?





It is a global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.

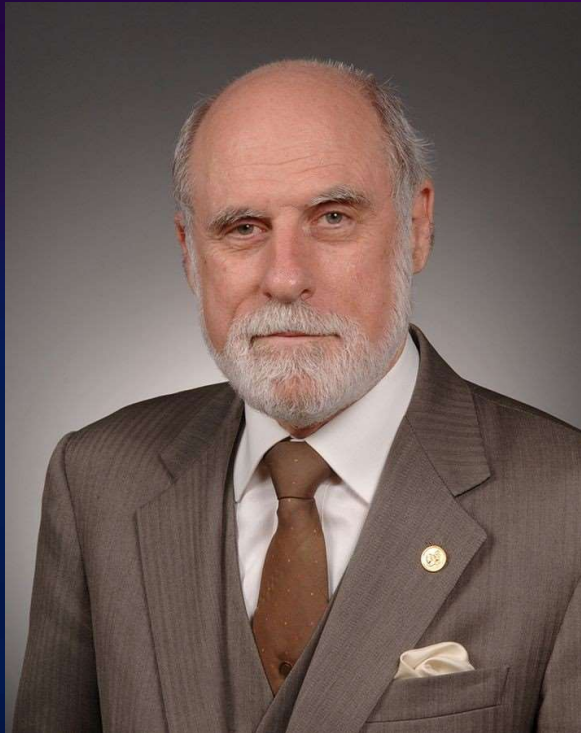
How does the
internet work?



How does the internet work?



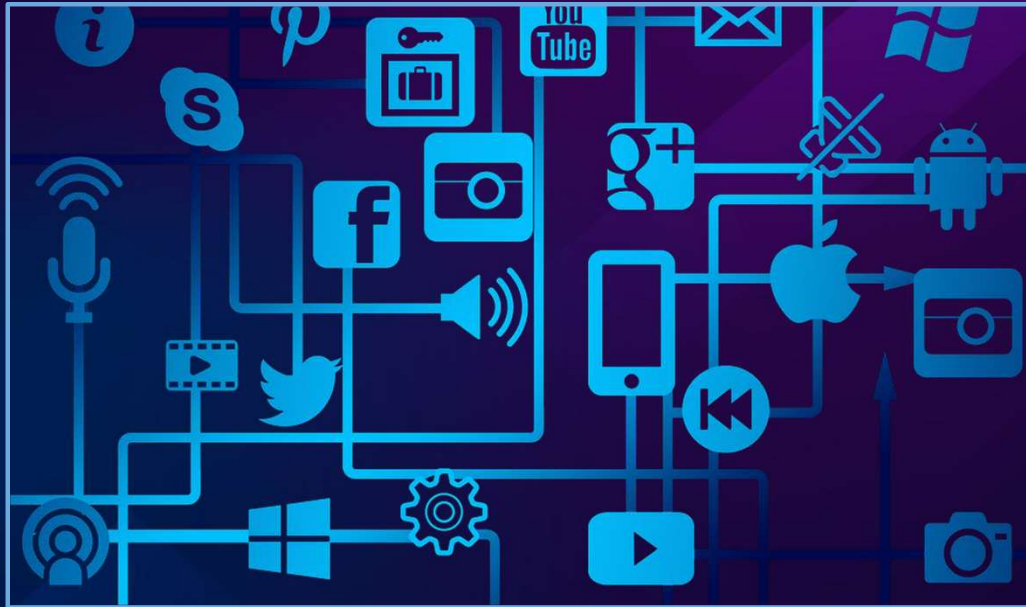
The Internet is based on a layered, end-to-end model that allows people at each level of the network to innovate free of any central control. By placing intelligence at the edges rather than control in the middle of the network, the Internet has created a platform for innovation.



Vinton Cerf - (Widely known as a "**Father of the Internet**," co-designer of **TCP/IP** protocols and basic architecture of the Internet)



In order to work with the Internet we need to know certain related terms like **www**, **web browsers**, **web pages**, **websites**, etc. We should know how to get connected to the Internet. Once connected – how to use it.



Most of the terms on the Internet are prefixed with the term web. The electronic pages seen on the Internet are known as **web pages**. A web page can be defined as the **document** that we see on the Internet.



A web page can be written in the language known as **HTML (Hyper Text Markup Language)**.


Do you know how
Vulnerability works?



Yes, I will let you...



Did you know?



IBM's chairman, president and CEO, said: "Cybercrime is the greatest threat to every company in the world." And she was right. During the next five years, cybercrime might become the greatest threat to every person, place and thing in the world. With evolving technology comes evolving hackers. Our best defense is to stay informed and learn from, albeit scary, but useful cybersecurity statistics and facts.