Section 1.1 Computer Networks Fundamentals

Cracking OSCP: Your Roadmap to Ethical Hacking Success

(What is the Internet)

YouTube : HackProKP – Kailash Parshad

LinkedIn : Kailash Parshad

WHAT'S THE INTERNET?

The Internet, short for "interconnected networks," is a global system of interconnected computer networks that use the Internet Protocol Suite (TCP/IP) to communicate with one another. It allows for the exchange of data, information, and services across the world. The internet consists of billions of devices like computers, servers, routers, and more, which are linked together through a vast collection of Private, Public, Business, Academic, and Government networks, to enable various forms of communication, including email, web browsing, file sharing, and real-time messaging. It serves as a vast network that spans the globe, enabling people to access and share information and resources over vast distances.

WHAT ABOUT THE WEB?

While the terms 'Internet' and 'World Wide Web' are frequently used interchangeably, they are not precisely the same. The Internet refers to the global communication infrastructure, encompassing all the hardware and network protocols, whereas the Web is a single service that operates over the Internet. The Web consists of interlinked hypertext documents and multimedia content accessed through web browsers, whereas the internet is the foundational network that enables various services like the web to function.

Internet = Infrastructure that provides services to applications

The internet can be thought of as the underlying infrastructure that facilitates the transmission of data and services to various applications and users.

INTERNET SERVICES

Internet = *Infrastructure that provides services to applications*

- Email (Electronic Mail)
- Web Surfing
- Social Networking
- Instant Messaging
- Voice over IP or VOIP
- Video Streaming
- Distributed Online Games

- Peer to Peer or P2P
- Television over the Internet
- Remote Login
- And Much More..

Thank You! 😊 🤍

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