## Connect and reover: Nework and Nework Module 1 We will Learn Structure of retwork · Nelwork operation Nelwork attack · Security hardening Introduction to Network We will learn Structure of a network Standard networking looks · Cloud networks · TCP/IP model Networks Group of connected devices Local Area Network (LAN): A retwork that spans a small area like an office brilding, a school or a home Wide Area Network (WAN): A network that spans a large geographic area like a city, state or country (devrier in define can be anything) devices in network communication can be wired or Addresses or Edentifiers like I Paddress or MA (address is used for communication

Network Tools A relevork device that broadcast information to every device on the network A device that makes connection between specific devices on a network by sending and receiving data between them Router A network dervice that connect multiple network together Modem
A device that connects your assets nowler to the internet and brings internet access to the LAN

Virtualization tools
Cieces of software that perform relevork operations The practice of using remote servers application and network services that are horted on the internet instead to of an local physical device · Collection of server or competers that stores mesource and data in remote data centers that can be accessed via the with

Crovides On demand slorage Processing power Network communication Data Packet: A basic unil of information that braves
from, one device to andrew within a network
Bandwidth: The amount of data a device receive
every second
Packet sniffing: The practice of capturing and
inspecting data packet across a network JCP: Transmission control Puoloco an internet communication protocol that allow two devices to form a connection and stream data JP: Internet brotocol as set of standard used for rowling and addressing data packet as they truvel between devices on a network Port: A software based on location that organize
the sending and receiving of data between
devices on a network

	DATE / / PAGE
7	
	The four layered TCP/IP Model
	TCP/IP model: Framework used to vissoalize how
	data is organized and transmitted  across the network
	across the network
	Layers
	1) Network access
	2) Internet
	3) Transport
	3) Transport 4) Application
	Local and Ulide Communication Network
	more than the said of the first of the said of the sai
	I Paddresses and network Communication
	A service of the serv
	I Paddress: A unique string of characters that whites
	Its location of a device on internet
	Types : 9 PV 9 (V = Version) = 19.117.63. 126
	· 4 P V ( => 6 8 4 D: 1111; 222:3333:4444; 5555;67
	I historia with the water of the contract of t
	MAC addresses:
	A unique alphanemeric identifiers that is assigned to each physical devices on a network
	physical devices on a network
	physical devices on a network