Telnet

- · Telnet is the Std .TCP/IP beatacal too vistual teaming Services. it enables you to establish a connection to a remote system insuch a manner that it appears as alocal system
- · Tel net uses port 23, which was designed specifically for local area networks
- · no proivileges are provided · SSH is more secure so it uss
- · Sutaible far private. netwooks
- · telnet transfer the data in plain text
- . low bond width usage
- · use in linux & Windows
- · Vulnerable to security attachs

SSH

- · SSH as Secure Shell is a program to log into another computer over. a network to execute. command in a remote machine
- · SSH runs an part 22 by default, which you can change it.
- feer the uses's authencotion publickey encouption fee outh
 - · Sutaible for public network
 - · The encrypted format is used to send data
 - · High bord width.
 - · all os
 - · Over come mony security isses of Telnet

4 FTP and TFTP

FTP (File Tounder Proutocol)

- has is a std network protocol used to transfer files between computers on a network
- FTP is a Client-Server protocol, which means that a. Client establish a connetion to an FTP server and then initiates file toonsfers
- · FTP uses two channels to toursfer files. Control channel & Data channel
- The Control Channel is used to establish the connection. between the Client and the Server 8 to Send commands &
- · The data channel is use to transfer the actual files.
- p has two modes of operations: active & passive mode. # TFTP (Trivial File Transfer Protocol)
 - · Trivial File Transfer Protocol (TFTP) is a Simple, lock-step, file bounster protocol.
 - · It is used to transfer files bet devices on a network. & typically used for transferring firmware & config files to networkedows
 - · TFTP is a connectionless, datagram-oriented prootocol, which means it does not establish a dedicated Connection befrere toonsfering files insted it uses UDP
 - · TFTP uses a very simple form of authentication, it any check the client's IP oddress to ensure that it is authorized

Stands for	FTP	TFTP
size	heavier	light weight.
ports	20821	64
Pastocal	TCP.	90 V
Complexity	wase somblex	less Complex
commands	lated command	five commond.
Benvices	connection—oriented	connection-less
Speed	Slower	fost er

5] HTTP and SMTP

0 1	HTTP	
1	tronsfer protocol	· SMTP stords for Simple mail transfer protocol
	t is use for Datu & file	· SMTP is used for moil . Services .
· H	TTTP uses post no 80.	· SMT Puses poot no 25
	TTP toonsfers files & data. From web server to web client	· SMTD uses moil deovers to. toursfer emoils From one intex
) . +	177P uses Pull padocal.	tounother
•		· SMTP uses push padto col .
1 · H	iTTP uses buth a persistent	·uses persistent Connection
5	non-persistent connection	to a contract of the party of t
- 4	place each object in	· Place all object into
	t's own HTTP message	a single message

SNMP.

- SNMP (simple Network Management Protocol) is a protocol to monage 8 monitor network devices such as router, switches servers.
 - It is used to collect information about the device's performance, configuration, etc.
 - Dimunaged de vicos: network device that are being.
 - monaged & monitored.

 Dimanagement station: The computer as device that is used to manage & monitor the managed to
 - monge & monitor the monged devices of Agent: Boftware that runs on the monaged devices and communicates with management Stations
 - SMI (Structure management Into): SMI defines the structure and Farmut ab. Info that is exchanged beto management Station 8 agent.

· SNMP: SNMP is the protocal that is used to MIB (Management Into Buse): MIB is database ab into about device Operation monce, config etc. agent, it is based on UDP and uses 161 port. into about the managed device it contains

Security: - VIBV2 are net secure V3 added security features like authenticution & encryption. UDP Port: - SNMP uses UDP port 161 for Sending and receiving SNMP messages.