

# Day-11

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Today I completed 1 more course on the topic of Ports named CompTIA Network+: Ports and Protocols which gives detailed information of ports and for what purposes they are used. Below I have defined the ports and have written their definition according to my understanding. They are as follows:

- 1) **Port 20/21 FTP (File Transfer Protocol):** Used to transfer files over the port using an FTP server and FTP client.
- 2) **Port 22 SFTP (Secure File Transfer Protocol):** Used to transfer files using the FTP server but securing it with an SSH layer which secures the connection.
- 3) **Port 22 SSH (Secure Shell):** Used for setting up a secure connection between two devices. It encrypts and decrypts traffic to keep the connection secure.
- 4) **Port 23 Telnet:** It is used for logging into a device which does not have GUI or accessing database.
- 5) **Port 25 SMTP (Simple Mail Transfer Protocol):** Used to send an email but not receiving it.
- 6) **Port 53 DNS (Domain Name System):** It converts domain name into IP and IP into domain. Requires a DNS resolver, Root Server, TLD server and Web server.
- 7) **Port 67 DHCP (Dynamic Host Control Protocol):** Used for automatic provisioning of IP addresses in an large environment, to eliminate chances of an error.
- 8) **Port 29 TFTP (Trivial File Transfer protocol):** It is same as an FTP but uses the User Datagram Protocol, so it is fast but prone to data/packet loss.
- 9) **Port 80 HTTP (Hyper Text Transfer Protocol):** It is used to load the contents like image, video, hyperlinks of an Website from the web server.

- 10) **Port 443 HTTPS (Hyper Text Transfer Protocol Secure):** Creates a secure connection by encrypting the traffic from the web server to the client's device.
- 11) **Port 123 NTP (Network Time Protocol):** It creates an NTP server and connects devices to it to synchronize time of all the connected devices.
- 12) **Port 161-162 SNMP (Simple Network Management Protocol):** Remotely monitors the devices and their performance.
- 13) **Port 389 LDAP (Lightweight Directory Access protocol):** Used to connect servers to check Active Directory.
- 14) **Port 139 SMB (Server Message Block):** Asks the server for accessing devices that are registered on the server.
- 15) **Port 514 Syslog:** It also analyzes and monitors system but also alerts it. It has 8 stages of alert from 0 to 7.
- 16) **Port 1433 Microsoft MySQL:** In microsoft, any app that communicate with a SQL DB server always uses TCP port 1433 by default.
- 17) **Port 1521 Oracle SQLNet:** This port is used when a DB is connected using Oracle.
- 18) **Port 3306 MySQL:** Operates for any MySQL request on this port as default.
- 19) **Port 3389 RDP (Remote Desktop Protocol):** It is developed by Microsoft to connect desktop remotely on your local device (just like anydesk).
- 20) **Port 5060/5062 SIP (Session Initiation Protocol):** Used to setup a real-time communication with low ping, like video call/ instant message etc.

I have attached the course completion certificate for authentication:

