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**Cyber Security 2022**

**Online Class**

**Types of Ports in Networking.**

**Notable well-known port numbers**

Port Number Usage

**20 File Transfer Protocol (FTP) Data Transfer**

The File Transfer Protocol (FTP) is a standard communication protocol used for the transfer of computer files from a server to a client on a computer network.

**21 File Transfer Protocol (FTP) Command Control**

The File Transfer Protocol (FTP) is a standard communication protocol used for the transfer of computer files from a server to a client on a computer network.

**22 Secure Shell (SSH)**

The Secure Shell Protocol (SSH) is a cryptographic network protocol for operating network services securely over an unsecured network.

**23 Telnet - Remote login service, unencrypted text messages**

Telnet is an application protocol used on the Internet or local area network to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection.

**25 Simple Mail Transfer Protocol (SMTP) E-mail Routing**

The Simple Mail Transfer Protocol (SMTP) is an internet standard communication protocol for electronic mail transmission. Mail servers and other message transfer agents use SMTP to send and receive mail messages.

**53 Domain Name System (DNS) service**

The Domain Name System (DNS) is the hierarchical and decentralized naming system used to identify computers reachable through the Internet or other Internet Protocol (IP) networks.

**67, 68 Dynamic Host Configuration Protocol (DHCP)**

The Dynamic Host Configuration Protocol (DHCP) is a network management protocol used on Internet Protocol (IP) networks for automatically assigning IP addresses and other communication parameters to devices connected to the network using a client–server architecture.

**80 Hypertext Transfer Protocol (HTTP) used in World Wide Web**

The Hypertext Transfer Protocol (HTTP) is an application layer protocol in the Internet protocol suite model for distributed, collaborative, hypermedia information systems.

**110 Post Office Protocol (POP3) used by e-mail clients to retrieve e-mail from a server**

The Post Office Protocol (POP) is an application-layer Internet standard protocol used by e-mail clients to retrieve e-mail from a mail server.

**119 Network News Transfer Protocol (NNTP)**

The Network News Transfer Protocol (NNTP) is an application protocol used for transporting Usenet news articles (netnews) between news servers, and for reading/posting articles by the end user client applications.

**123 Network Time Protocol (NTP)**

The Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks.

Not to be confused with Daytime Protocol, Time Protocol, or NNTP

**143 Internet Message Access Protocol (IMAP) Management of Digital Mail**

The Internet Message Access Protocol (IMAP) is an Internet standard protocol used by email clients to retrieve email messages from a mail server over a TCP/IP connection.

**161 Simple Network Management Protocol (SNMP)**

Simple Network Management Protocol (SNMP) is an Internet Standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behavior

**194 Internet Relay Chat (IRC)**

Internet Relay Chat (IRC) is a text-based chat system for instant messaging. E.g. WhatsApp

**443 HTTP Secure (HTTPS) HTTP over TLS/SSL**

Hypertext Transfer Protocol Secure (HTTPS) is an extension of the Hypertext Transfer Protocol (HTTP). It is used for secure communication over a computer network, and is widely used on the Internet.

**546, 547 DHCPv6 version of DHCP**

The Dynamic Host Configuration Protocol version 6 (DHCPv6) is a network protocol for configuring Internet Protocol version 6 (IPv6) hosts with IP addresses, IP prefixes, default route, local segment MTU, and other configuration data required to operate in an IPv6 network. It is the IPv6 equivalent of the Dynamic Host Configuration Protocol for IPv4.