

VPN Ports: Your Entry and Exit

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The network port refers to the number assigned to each message. The standard network protocols like TCP, IP, UDP usually attaches port number to the data it sends. The type of service provided is based on this port number. This assignment is usually based on logic. Learn more about hardware and software VPN ports. Simply read on.

The article covers

- IP Addresses
- Software ports
- VPN ports and Hardware Ports

IP Addresses

TCP/IP stands for Transmission Control Protocol and IP for Internet Protocol. These protocols are responsible for transporting and managing the data across the network. The IPv4 requires a 4 byte address to be assigned to each network interface card that exists on all the computers in the network whereas the Ipv6 assigns a 6 byte address. IP Addresses works almost like a house address without which determining where data packets go would be impossible.

IP Checking

The part of the IP address that defines the network is the network ID, and the latter part of the IP address defining the host address is the host ID. By the way, if you need to find out the IP address of your device, you can do this by visiting <http://ip-locations.org>. It will display your current IP and location.

Using port

Using this port and addressing scheme, the networking system can pass data, addressing information, and type of service information through the hardware, from one computer to another.

Software ports

The network port is usually number and standard network protocols like TCP, IP,

The naming systems

This naming system is logical and pertains to the services that carry on long term conversation. A list that specifies the port used by the server process is known as its contact port. A service contact port is defined to provide specific service to unknown callers. These software network ports also connect internal programs on the same computer. Numbers from 0 to 1023 are used to identify a network service on the internet (Internet Protocol).

IP packets

Each IP packet contains a TCP or UDP header which directs applications to the appropriate application in the server. Reserved port numbers and unassigned numbers can be used by application programs.

The IANA

The Internet Assigned Numbers Authority (IANA) registers ports 1024 to 49151 for the convenience of internet continuity. Port numbers from 49151 to 65535 are called dynamic ports and are private. You could look up IANA for more details on assigned port numbers. The most well-known port is 80, which identifies HTTP traffic for a Web server.

The Well Known Ports

The Well Known Ports are assigned by the IANA and on most systems can only be used by system (or root) processes or by programs executed by privileged users. Port numbers are straight unsigned integer values which range up to a value of 65535. Below is a list of well known ports and their services.

Ports&Services

20,21 FTP (File transfer)
22 SSH (Remote login secure)
25 SMTP (Internet mail)

Ports&Services

443 HTTPS (Web secure)
514 Syslog (Event logging)
563 NNTPS (Usenet newsgroups secure)
993/tcp IMAP4 over SSL, Internet Message Access Protocol
995/tcp POP3 over SSL, Post Office Protocol
989,990 FTPS (File transfer secure)
1723 Virtual private network (VPN)

UDP attaches a port number to the data it sends. A port number is to be assigned to each message according to the TCP layer requirements. This port (logical reference) number determines the type of service provided. This software network port (address in the form of a number) is assigned to a service for communicating between a program and another program/c-ommunication system.

53 DNS (Host naming)
80 HTTP (Web)
88 Kerberos (computer authentication protocol)

Ports&Services

110 POP3 (Client access)
119 NNTP (Usenet newsgroups)
123 NTP (Network time)
137-139 NetBIOS (DOS/Windows naming)
143 IMAP (Client access)
161,162 SNMP (Network management)
163,164 CMIP (Network management)



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