

Internet



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Internet backbone a collection of large national and international networks, most of which are owned by commercial, educational, or government organizations; they have the fastest high speed connections; examples are Verizon, AT&T, and Sprint

ISP internet service providers

IXP internet exchange point; typical ones is made up of one or more network switches to which ISP's connect

POP point of presence; a bank of modems, servers, routers, and switches through which many users can connect to an ISP simultaneously

Client/server model majority of internet communications; clients are devices such as computers, tablets, and smartphones that use browsers to request services such as web pages; servers are deployed on the networks that make up the Internet

Protocol set of rules for exchanging electronic information; rules of the road

Circuit switching a dedicated connection remains active for the duration of the transmission; been used since the early days of the telephone for establishing communication; connections remains active for duration of transmission and is important when order of receiving information is critical

Packet switching the communications methodology that makes computer communication efficient; does not require a dedicated communications circuit to be maintained; data is broken into smaller chunks called packets

What information does a packet contain they vary, depending on the protocol being followed, but at a minimum, they must contain an address to which the packet is being sent, the address from where the packet originates, reassembly instructions, if the original data is split between packets, and that data that is being transmitted

TCP/IP transmission control protocol/internet protocol that consists of many interrelated protocols; the IP is responsible for sending the information from one computer to another, the TCP prepares data for transmission and provides for error checking and resending lost data

HTTP hypertext transfer protocol was created especially for the transfer of hypertext documents across the internet; hypertext documents have text is linked to other documents or media

FTP

SMTP simple mail transfer protocol is responsible for sending emails along the internet to its destination; it is part of the internet protocol suite, is a client/server application, passes through several email servers; was designed to handle text messages

DHCP dynamic host configuration protocol, it belongs to the TCP/IP protocol suite. which takes a pool of IP addresses and shares them with hosts of the network of an as needed basis server assigns each user an ip address for the duration of the session; it also assigns an IP address to your computer

15. Dynamic addressing IP address is temporarily assigned from an available pool of IP addresses, which is more common; is normally handles by the

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DHCP which belongs to the TCP/IP; provides a more secure environment by keeping hackers out of computer systems

16. Static addressing means that the IP address for a computer never changes and is most likely assigned manually by a network administrator or an ISP

17. How does my computer know the IP address of another computer?

18. DNS server domain name server that functions like a phone book for the internet

19. Root DNS server knows locations of DNS servers that contain master listings for TLD

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