

# [Chapter 6](https://assignbuster.com/chapter-6/)

ARPANETAdvanced Research Projects Agency Network

Internet backboneThe main pathway of high-speed communications lines over which all Internet traffic flows.

Network Service ProvidersBackbone links and routers

Network Access PointsNSP equipment and links

nternet service providerIs a company that offers Internet access to individuals, businesses, and smaller ISPs

TCP/IPIs the primary protocol suite responsible for message transmission on the Internet

Static IP AddressPermanent IP Address

Dynamic IP AddressTemporary IP Adress

Domain NameIs a key component of Web page addresses and e-mail addresses

LatencyThe Elapsed time for data to make a round trip from point A to point B back to Point A

Asymmetric Internet connectionWhen upstream speeds differ from downstream speeds

Symmetric Internet connectionWhen upstream and downstream speeds are the same

dial-up connectionA fixed Internet connection that uses a voiceband modem and telephone lines

voiceband modemconverts the signals from your computer into audible analog signals that can travel over telephone lines

DSLis a high-speed, digital, always-on Internet access technology that runs over standard phone lines

Cable Internet serviceIs a means of distributing always-on broadband Internet access.

Cable modemsconvert your computer's signal into one that can travel over the CATV network

Satellite Internet servicedistributes always-on, high- speed asymmetric Internet

Satellite modemis a device that modulates data signals from a computer into a frequency band

Fixed wireless Internet servicebroadcasts data signals in order to offer Internet access to large areas

Portable Internet accessis the ability to easily move your Internet service from one location to another

Mobile Internet accessoffers a continuous Internet connection as you are walking or riding in a bus, car, train, or plane

Wi-Fi hotspotis an area in which the public can access a Wi-Fi network that offers Internet service

mobile broadbandcellular service providers offer data services

MiFiis a brand name for a compact, mobile, wireless router offered by Novatel Wireless

Cloud computingDepends on a grid of servers, storage devices, and protocols that offer Internet-accessible computing services

Real- time messaging systemAllows people to exchange short messages while they are online

VoIPis a technology in which a broadband Internet connection is used to place telephone calls instead of the regular phone system

Internet forumWeb-based online discussion site where participants post comments to discussion threads

wikiallows participants to modify posted material

blogis similar to an online diary; it is maintained by a person, company or organization and contains a series of entries on one or more topics.

tweetis a short message of 140 characters or less, posted to the Twitter Web site

grid computing systems a network of computers harnessed together to perform processing tasks

P2P file sharingallows users to obtain files from other users located anywhere on the Internet

BitTorrentis a file sharing protocol that distributes the role of file server across a collection of dispersed computers

intrusionis any access to data or programs by hackers, criminals, or other unauthorized persons

communications portis the doorway that allows a computer to exchange data with other devices

port probeuses automated software to locate computers that have open ports

A firewallis software or hardware designed to filter out suspicious packets attempting to enter or leave a computer

Routersare intended to work within LANs to monitor and direct packets being transported from one device to another

routable IP addressis one that can be accessed by packets on the Internet

A private IP addressis a non-routable IP address that can be used within a LAN, but not for Internet data transport

Network address translationis the process your router uses to keep track of packets

virtual private networkaccess to a remote access server in the corporate office

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