

The Internet

Key Words

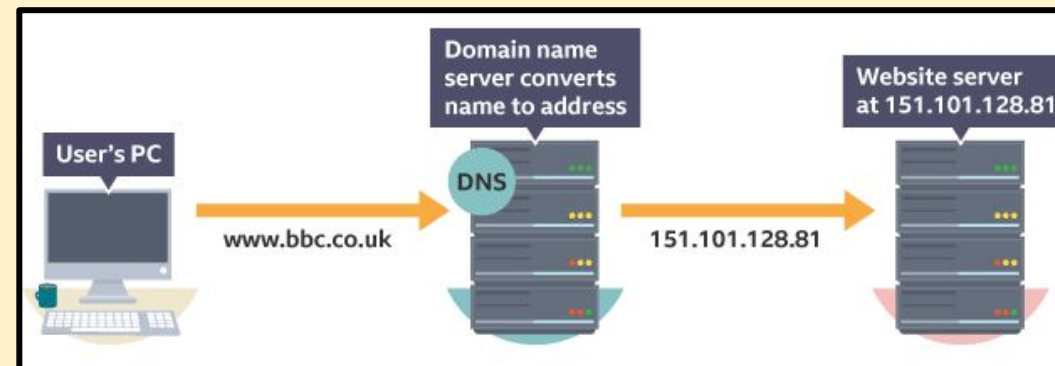
backup	A copy of important files that is kept separately in case the original files are lost or damaged.
client-server	A form of computer networking where the data or web application is hosted on a server and accessed by client computers.
cloud	A term often used to describe a location on the internet from which software applications are run and where data is stored.
domain name	An easy-to-remember address used to access websites
Domain Name Server (DNS)	Translates a domain name into an internet address.
hosting	The storing of files and data on a web server.
Internet	A worldwide collection of computer networks.
Internet Protocol Address (IP)	A unique address for each computer device on a network.
media server	A server on a network that stores media files and streams them to connected devices.
Uniform Resource Locator (URL)	A unique identifier used to locate a resource on the Internet.
web server	A computer that serves web pages to users.

The Internet

- The internet is a worldwide collection of computer networks.
- The term 'internet' refers to the network infrastructure, not the content stored on it.
- The internet largely works on the client-server model. For example:
 - web servers store and maintain web content, which is downloaded upon request to client computers
 - mail servers handle web-based email
 - media servers allow clients to stream music and videos
- Hosting is the storing of files and data on a web server. The web server is referred to as a host.

Domain Name Server

- Every website on the internet has a network address, consisting of four sets of three digits. For example, the BBC website's address is 151.101.128.81.
- Addresses like this are hard for users to remember. Instead, websites are accessed using domain names, for example, 'bbc.co.uk'. Domain names are much easier for users to remember.
- A domain name server takes the domain name and looks up its equivalent network address. The user's request is then forwarded to the server that resides at that network address.



The Cloud

- The cloud is a generic term for using the internet to remotely access services and storage.
- Users do not actually know where the service or data is stored - the geographical location is unimportant.
- Users only need to know that the service is accessed or data is stored on a server connected to the internet.



Advantages of using the cloud

- The ability to access files from any location or any device as long as an internet connection exists
- The business running the cloud storage service manages backups and security.
- Additional storage can be added easily without having to invest in additional hardware .

Disadvantages of using the cloud

- If you can access your data from anywhere with an internet connection, then a hacker can potentially do the same.
- There is no guarantee your data is being backed up
- Access to data is only possible with an internet connection - no connection means no access to data

Quizizz



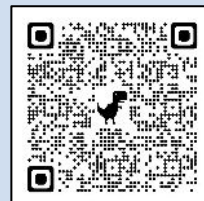
Extended Reading



Exam Questions



Video



Revision Techniques



Quizlet



Specification

