Networks: Internet and Ethernet

| Α | Key vocab | | | | | Ethernet | |
|--|--|--|--|---------------------------|--|---|--|
| Hypertext Markup Language | HTML | Language which websites are written in, and which a browser interprets | | | Data unit to be sent over Ethernet, including source and destination MAC address and | | |
| Cascading Style Sheets | CSS | File which adds additional styling to HTML files | | | | error checking. Sent to all devices connected on a segment. Created by hardware | |
| eXtensible Markup Language | XML | Text-based data file for use with HTML | Seg | | | Section of an Ethernet network on a shared medium | |
| Uniform Resource Locator | desource URL A memorable name for a domain | | D | | TCP/IP | | |
| Internet service provider | ISP | Company which provides access to the internet | 1 | Appli layer | | Makes data readable to the senders and recipients by using protocols like | |
| Host | A com | mputer which stores a resource HTTP, FTP, SMTP etc | | | | | |
| Service | Software which is available to use via a network | | 2 | Trans | • | Breaks down data into packets and | |
| Dynamic IP | Tempo | orary IP address assigned by DHCP server | | layer | | applies appropriate headers and | |
| address | on con | nection to a network | 3 | trailers according to TCP | | - | |
| Static IP address | dress Permanent IP address assigned to a computer by the ISP | | | Internet layer | | Adds sender's and recipient's IP addresses according to Internet Protocol | |
| Virtual machine | hine A machine (or representation of one) used through the cloud | | 4 | Data | • | Breaks data into frames according to | |
| Virtual network | network A network including virtual machines | | | physi | | Ethernet protocol for passing between nodes of a network and | |
| В | Domain naming | | | layer | | between different networks | |
| Domain | _ | p of computers on a network which are istered together | Pr | otocol | | Top level domain Folder File extension File name | |
| Domain Name A server which contains a list of IP addresses System (or Server) and their associated URL | | | https://www.phcs.org.uk/assets/compsci.jpg | | | | |
| Top level | The las | st suffix in a URL | | URL | | | |

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| Δ | | Key vocab | | |
|--------------------------------|--|--|----------|--|
| 7.4 | 1 | - | _ | |
| Hypertext Markup | HTML | Language which websites are written in, | F | |
| Language | | and which a browser interprets | | |
| Cascading Style | CSS | File which adds additional styling to | | |
| Sheets | | HTML files | | |
| eXtensible | XML | Text-based data file for use with HTML | S | |
| Markup Language | | | | |
| Uniform Resource | URL | A memorable name for a domain | 느 | |
| Locator | | | | |
| Internet service | | Company which provides access to the | 1 | |
| provider | ISP | internet | | |
| Host A computer which s | | puter which stores a resource | 2 | |
| Service | Software which is available to use via a network | | | |
| Dynamic IP | Temporary IP address assigned by DHCP server | | | |
| address | on connection to a network | | | |
| Static IP address | Permanent IP address assigned to a computer | | | |
| | by the ISP | | | |
| Virtual machine | A machine (or representation of one) used | | | |
| | through the cloud | | | |
| Virtual network | A netw | vork including virtual machines | | |
| B Domain naming | | | | |
| Domain | A group of computers on a network which are | | <u> </u> | |
| | administered together | | | |
| Domain Name | A serv | A server which contains a list of IP addresses | | |
| System (or Server) | and their associated URL | | | |
| Top level | The last suffix in a URL | | | |
| | | | | |

| С | Ethernet | |
|---------|--|--|
| Frame | Data unit to be sent over Ethernet, including | |
| | source and destination MAC address and | |
| | error checking. Sent to all devices connecte | |
| | on a segment. Created by hardware | |
| Segment | t Section of an Ethernet network on a share | |
| | medium | |
| 1 | | |

| | D | | TCP/IP | | | | | |
|---|---|-----------|-----------|--|--|--|--|--|
| 1 | 1 | Αp | plication | Makes data readable to the senders | | | | |
| | | layer | | and recipients by using protocols like | | | | |
| 1 | | | | HTTP, FTP, SMTP etc | | | | |
| 1 | 2 | Transport | | Breaks down data into packets and | | | | |
| 1 | | lay | /er | applies appropriate headers and | | | | |
| | | | | trailers according to TCP | | | | |
| - | 3 | Int | ernet | Adds sender's and recipient's IP | | | | |
| | | lay | /er | addresses according to Internet | | | | |
| 1 | | | | Protocol | | | | |
| | 4 | Da | ta link / | Breaks data into frames according to | | | | |
| 1 | | ph | ysical | Ethernet protocol for passing | | | | |
| 1 | | lay | /er | between nodes of a network and | | | | |
| 4 | | | | between different networks | | | | |

Protocol Top level domain Folder File extension File name

https://www.phcs.org.uk/assets/compsci.jpg

Domain name

URL