

Networks: Internet and Ethernet

A	Key vocab	
Hypertext Markup Language	HTML	Language which websites are written in, and which a browser interprets
Cascading Style Sheets	CSS	File which adds additional styling to HTML files
eXtensible Markup Language	XML	Text-based data file for use with HTML
Uniform Resource Locator	URL	A memorable name for a domain
Internet service provider	ISP	Company which provides access to the internet
Host	A computer which stores a resource	
Service	Software which is available to use via a network	
Dynamic IP address	Temporary IP address assigned by DHCP server 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 network including virtual machines	

B	Domain naming	
Domain	A group of computers on a network which are administered together	
Domain Name System (or Server)	A server which contains a list of IP addresses and their associated URL	
Top level	The last suffix in a URL	

C	Ethernet	
Frame	Data unit to be sent over Ethernet, including source and destination MAC address and error checking. Sent to all devices connected on a segment. Created by hardware	
Segment	Section of an Ethernet network on a shared medium	

D	TCP/IP	
1	Application layer	Makes data readable to the senders and recipients by using protocols like HTTP, FTP, SMTP etc
2	Transport layer	Breaks down data into packets and applies appropriate headers and trailers according to TCP
3	Internet layer	Adds sender's and recipient's IP addresses according to Internet Protocol
4	Data link / physical layer	Breaks data into frames according to Ethernet protocol for passing between nodes of a network and between different networks

