

# Module 4 Glossary

## **New terms and their definitions: Course 1 Week 4**

**ARPANET:** The earliest version of the Internet that we see today, created by the US government project DARPA in the 1960s

**Children's Online Privacy Protection Act (COPPA):** Regulates the information we show to children under the age of 13

**Clients:** A device that receives data from a server

**DARPA:** A US government project in the 1960s that went on to create the earliest version of the Internet that we see today

**Domain name:** A website name; the part of the URL following www.

**Domain Name System (DNS):** A global and highly distributed network service that resolves strings of letters, such as a website name, into an IP address

**Ethernet cable:** It lets you physically connect to the network through a cable

**Fiber optic cable:** Fiber optic cables contain individual optical fibers which are tiny tubes made of glass about the width of a human hair. Unlike copper, which uses electrical voltages, fiber cables use pulses of light to represent the ones and zeros of the underlying data

**Globalization:** The movement that lets governments, businesses, and organizations communicate and integrate together on an international scale

**Hubs:** Devices that serve as a central location through which data travels through

**Internet:** A worldwide system of interconnected networks

**Internet Corporation for Assigned Names and Numbers (ICANN):** Where website names are registered

**Internet of Things (IoT):** The concept that more and more devices are connected to the internet in a smarter fashion such as smart thermostats that turn off the air conditioner when you leave and turn it on when you come back

**Internet Protocol version 4 (IPv4):** An address that consists of 32 bits separated into four groups

**Internet Protocol version 6 (IPv6):** An address that consist of a 128 bits, four times the amount that IPv4 uses

**Internet service provider (ISP):** A company that provides a consumer an internet connection

**IP address:** The most common protocol used in the network layer, used to helps us route information

**MAC address:** A globally unique identifier attached to an individual network interface. It's a 48-bit number normally represented by six groupings of two hexadecimal numbers

**Network:** The interconnection of computers

**Network Address Translation (NAT):** A mitigation tool that lets organizations use one public IP address and many private IP addresses within the network

**Networking:** Managing, building and designing networks

**Networking protocols:** A set of rules for how we transfer data in a network

**Network stack:** A set of hardware or software that provides the infrastructure for a computer

**Router:** A device that knows how to forward data between independent networks

**Server logs:** Text files that contains recorded information about activities performed on a specific web server in a defined period of time

**Servers:** Devices that provide data to other devices that request that data, also known as a client

**Switches:** Devices that help our data travel

**Transfer Control Protocol (TCP):** A protocol that handles reliable delivery of information from one network to another

**Uniform Resource Locator (URL):** A web address similar to a home address

**WannaCry Attack:** A cyber attack that started in Europe and infected hundreds of thousands of computers across the world

**Wireless networking (Wi-Fi):** Networks you connect to through radios and antennas

**World Wide Web (WWW):** The information system that enables documents and other web resources to be accessed over the Internet

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