

ICT-Lesson 3

Objectives

- * To know that computers connected to the Internet have their own address
- * To understand that services involving web pages on the internet are known as the World Wide Web and that websites can be traced to a particular webserver

Vocabulary

URL-the address of a web page.

Web server-is a **computer that runs websites.**

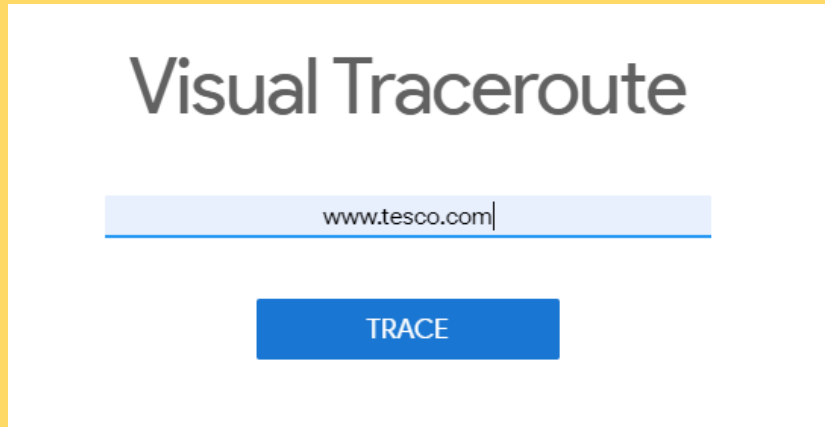
Watch the videos:

[How does the internet work? - BBC Bitesize](#)

[Internet Revealed - The Euro-IX movie – YouTube](#)

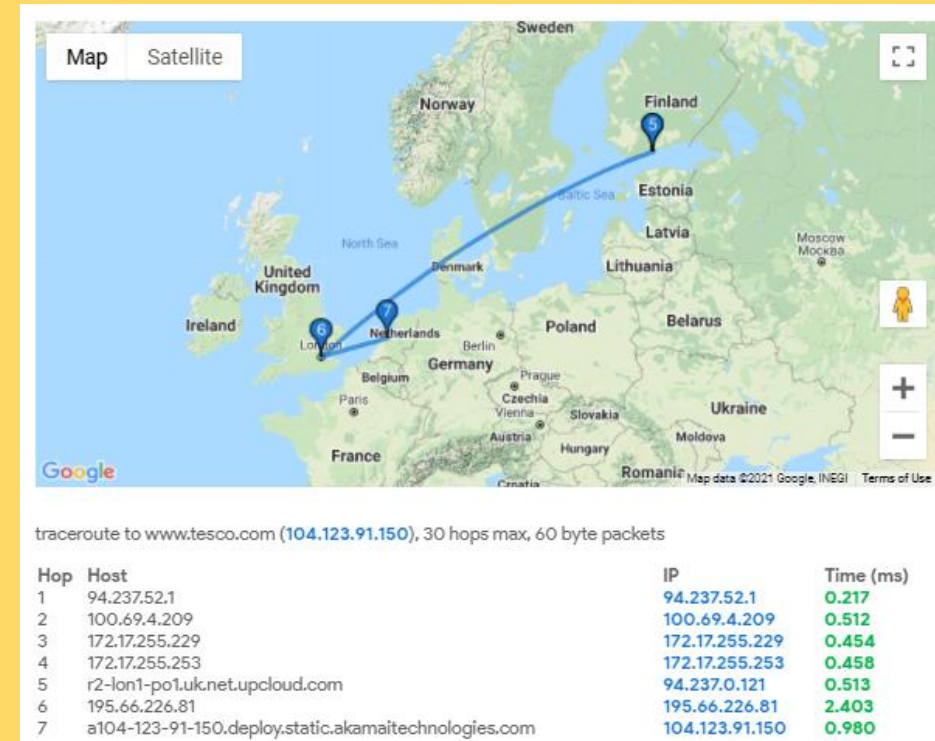
- ★ Websites 'live' on computers called **webservers**, which is just a name for a computer that has **web pages** on it that people using the internet can use
- ★ When you type the **url** of a webpage, you are really sending a message out into the internet that says 'send me this page'; the url is the nickname for the IP address of the webserver where the webpage 'lives'
- ★ The router at your house (or wherever you are accessing the internet) then sends your request for that webpage out on the internet and is directed to the address of the webserver you want by a number (sometimes a lot of) routers that are also connected to the internet (refer back to video)

Visual traceroute - Track and map the full path of an IP packet (gsuite.tools)



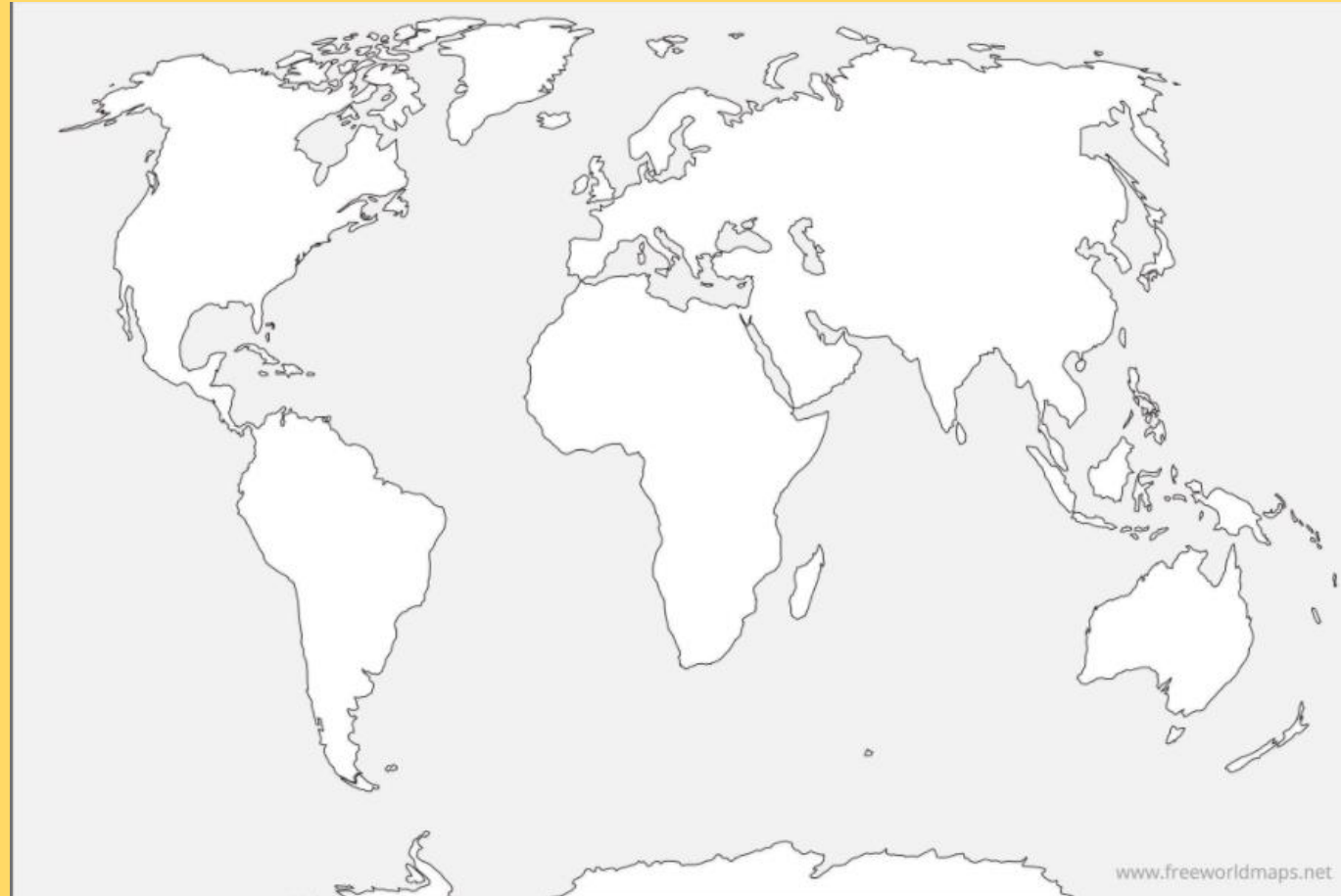
1. Type in the website you want to trace.

The number of 'hops' is the number of routers the request has 'bounced' between to get to the server where the website 'lives'.



2. Click on 'Trace' and a map will appear. Note down the number of 'hops' (in this example 7) and the 'Host' country (the last number-in this example the Netherlands).

Now find out where **at least 5** of your favourite websites 'live'. Record the 'hops' that you can see and the host country on a World Map (on the school website). You could use different colours for each website.



And finally...

Did anyone search for Google?

Watch this video:

[Explore a Google data center with Street View – YouTube](#)

Google is an Internet Search Engine which is itself a website that maintains a list of all the other websites that are available on the internet,.

We will be exploring how internet search engines work in the next session.