

HISTORY OF THE INTERNET

How The Internet Works

ABOUT

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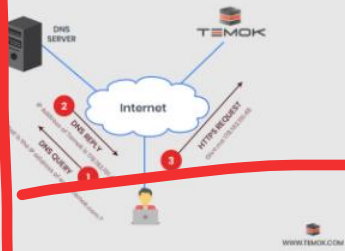
There was a time when people felt the internet was another world, but now people realize it's a tool that we use in this world. - Tim Berners-Lee

- Sir Timothy John Berners-Lee also known as TimBL, is an English computer scientist best known as the inventor of the World Wide Web. He is a Professorial Fellow of Computer Science at the University of Oxford and a professor at the Massachusetts Institute of Technology (MIT). Berners-Lee proposed an information management system in 1989, then implemented the first successful communication between a Hypertext Transfer Protocol (HTTP) client and server via the internet

What is the Internet?

- A distributed packet-switched network.
- The Internet is interconnected networks, supports host-to-host communication through voluntary adherence to open protocols and procedures defined by Internet Standards.
- A collection of multiple different pieces of computer and non-computer equipment talking to one another by means of a communications network either wired or wireless.
- Internet was invented by Bob Khan and Vint Cerf in 1970.

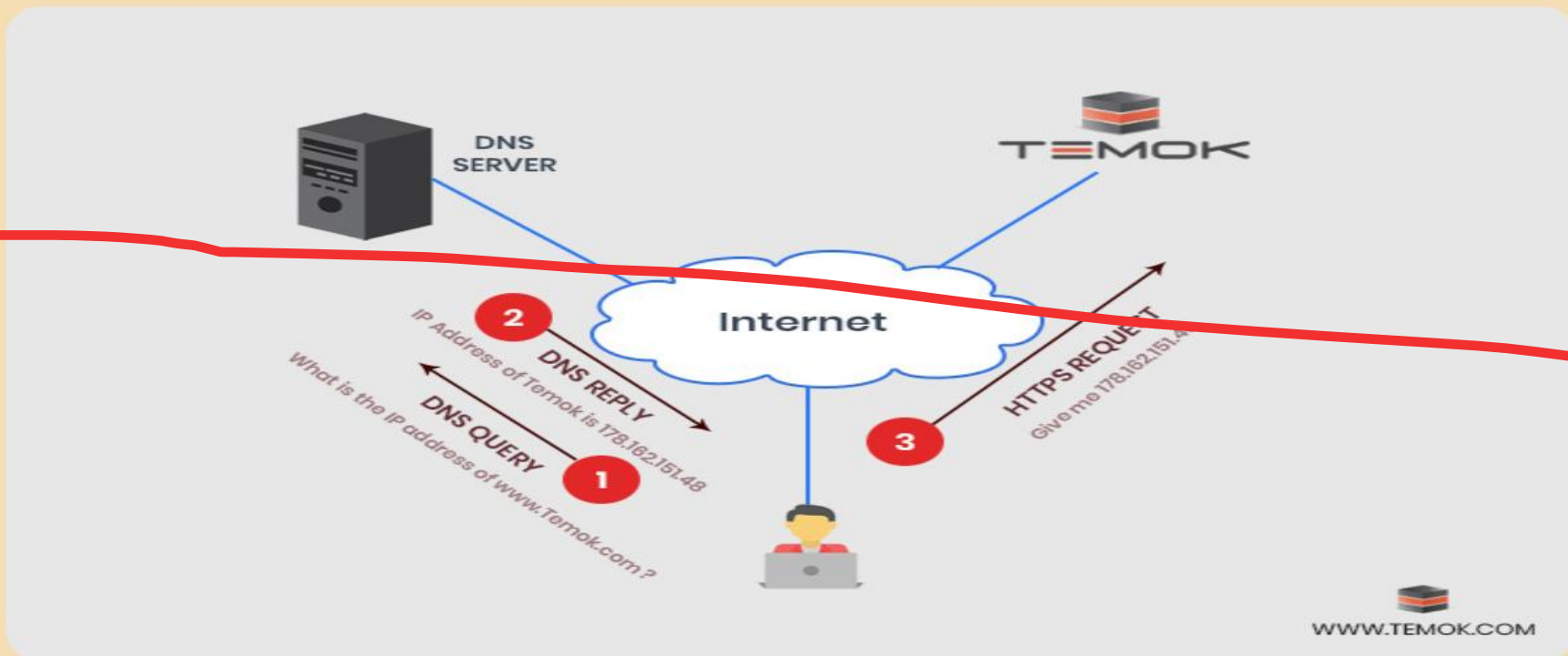


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For example, the Temok's website can be found at "temok.com" rather than "178.162.151.48" but the HTTP request will use the IP address provided by the DNS server. Another advantage of DNS is the prevention of a domain from being tied to any particular computer because the link between an IP address and domain name can be changed

Ican and DNS

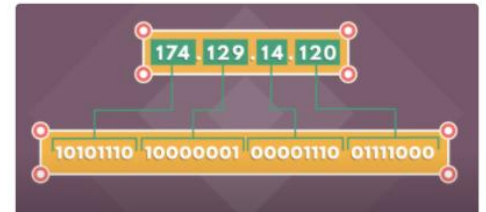
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Packets

Sending an image to your friend or upload to a website, that is made up of billions of bits 0s and 1s, too many to send along in one packet. The computer sending the image can break it into smaller parts called packets. Each packet has the internet address of where it came from and where it's going. Routers act like traffic managers to keep the packets moving through the networks smoothly.

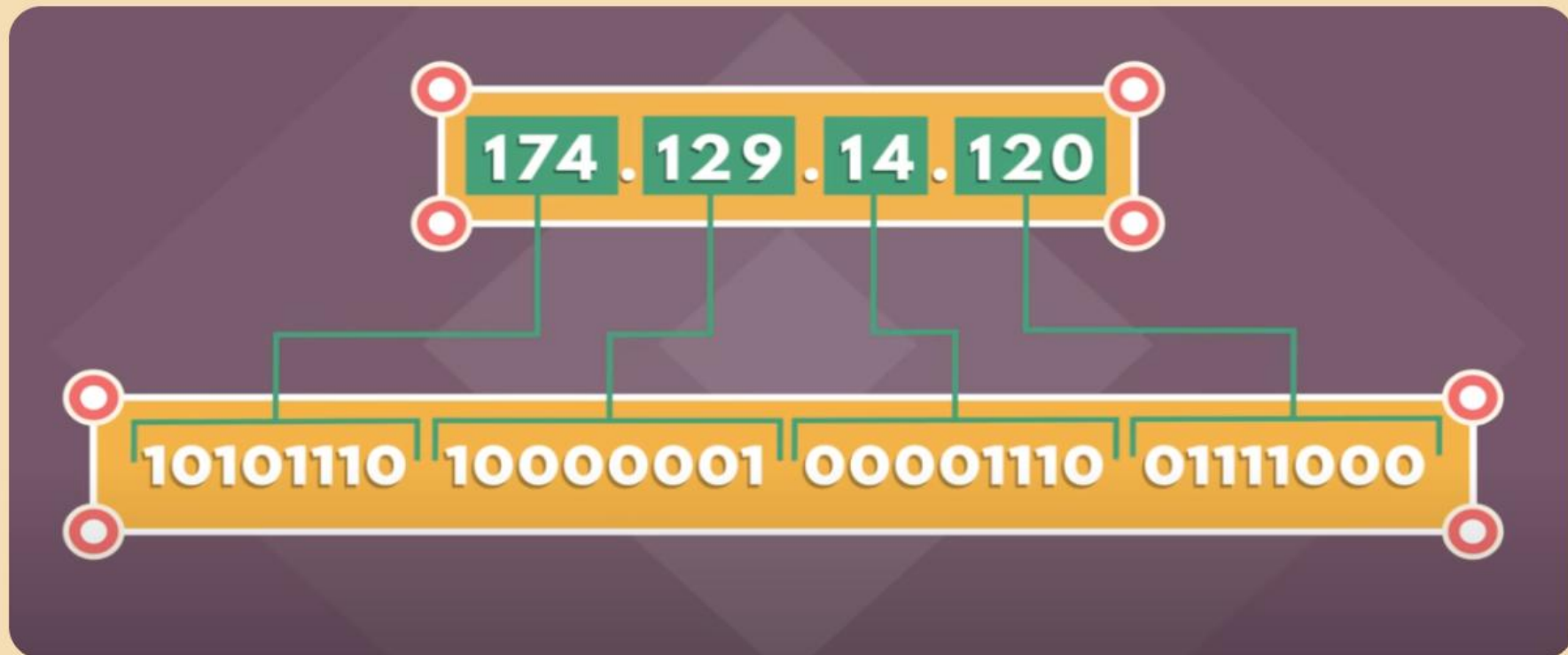
[IP ADDRESSES](#)[PACKETS](#)[ROUTERS](#)[RELIABILITY](#)

IPV4

This version of ip addresses is called IPV4 which was designed in 1973 and adopted in the 80s. Providing more than 4 billion addresses for devices connecting to the internet. Now is the transition time to a longer address called IPV6 that uses 132 bits per address.

IP Adresses

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IPV4