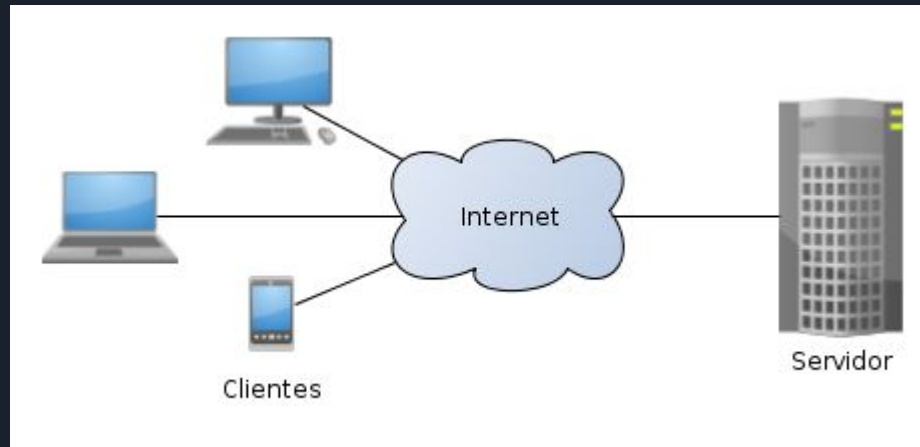


How the Internet  
works.



Everything in computer science works through **protocols**.

The **Internet** is the global system of interconnected **computer networks** that uses the **Internet protocol** (TCP/IP).



Client-Server Architecture

# How do we access to the internet?

through the IP protocol. (Internet Protocol).

We need a Public IP address to be part of the internet.

Public IP address is given to your Router.



## Who manages the Public IP addresses all around the world?

Internet Corporation for Assigned Names and Numbers



# ISP (Internet Service Provider)

ISPs rent a rank of Public IP addresses to the ICANN.

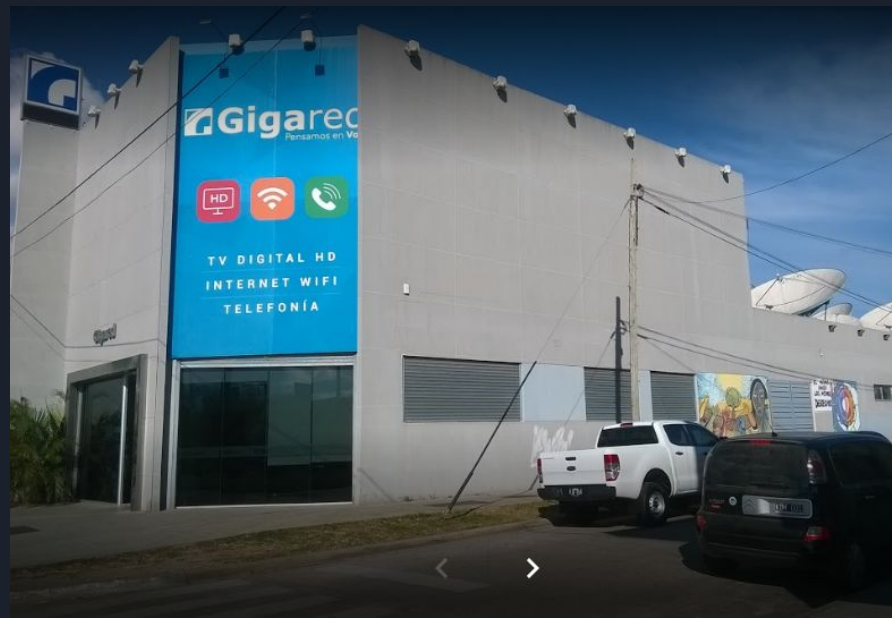
And we rent a single IP address to the ISP.



**Arnet**

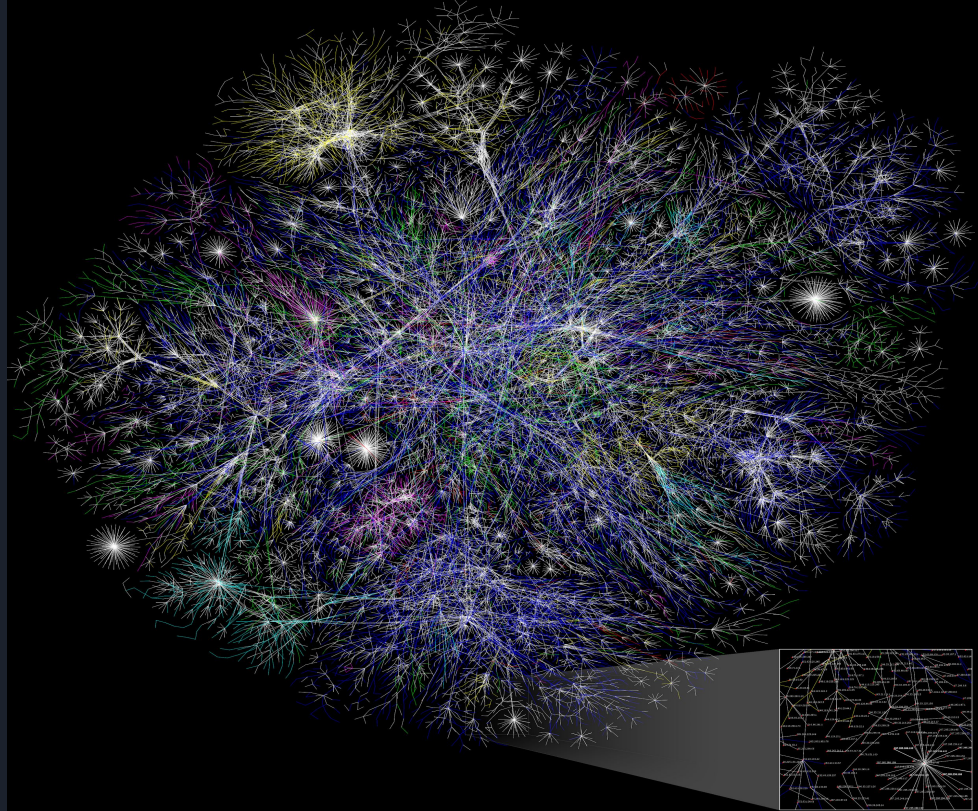
**Fibertel**

**Claro**



# The Internet is **not** the same as The Web

The Internet is a global network of networks.



# The Internet is **not** the same as The Web

World Wide Web (www) is the collection of information or applications which are accessed via the Internet.

WORLD  
WIDE  
WEB



zoom



mercado  
libre



reddit

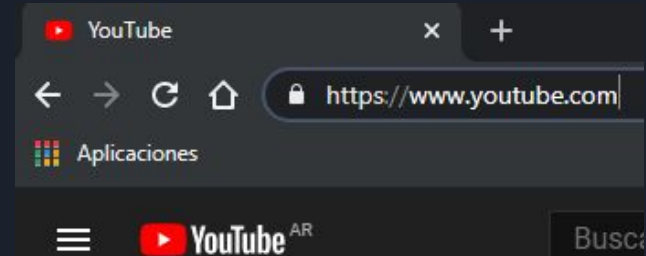
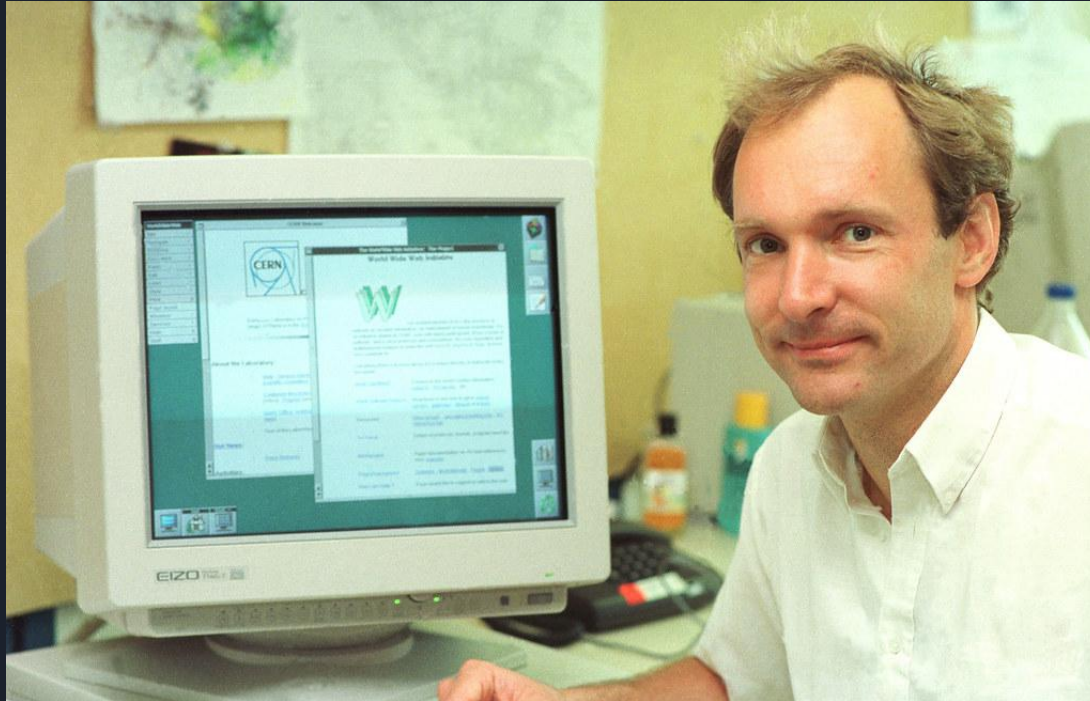



infobae



# The Internet is **not** the same as The Web

HTTP protocol invented by the physicist Tim Berners Lee in 1991, in The CERN in Switzerland with the goal of share information between partners.





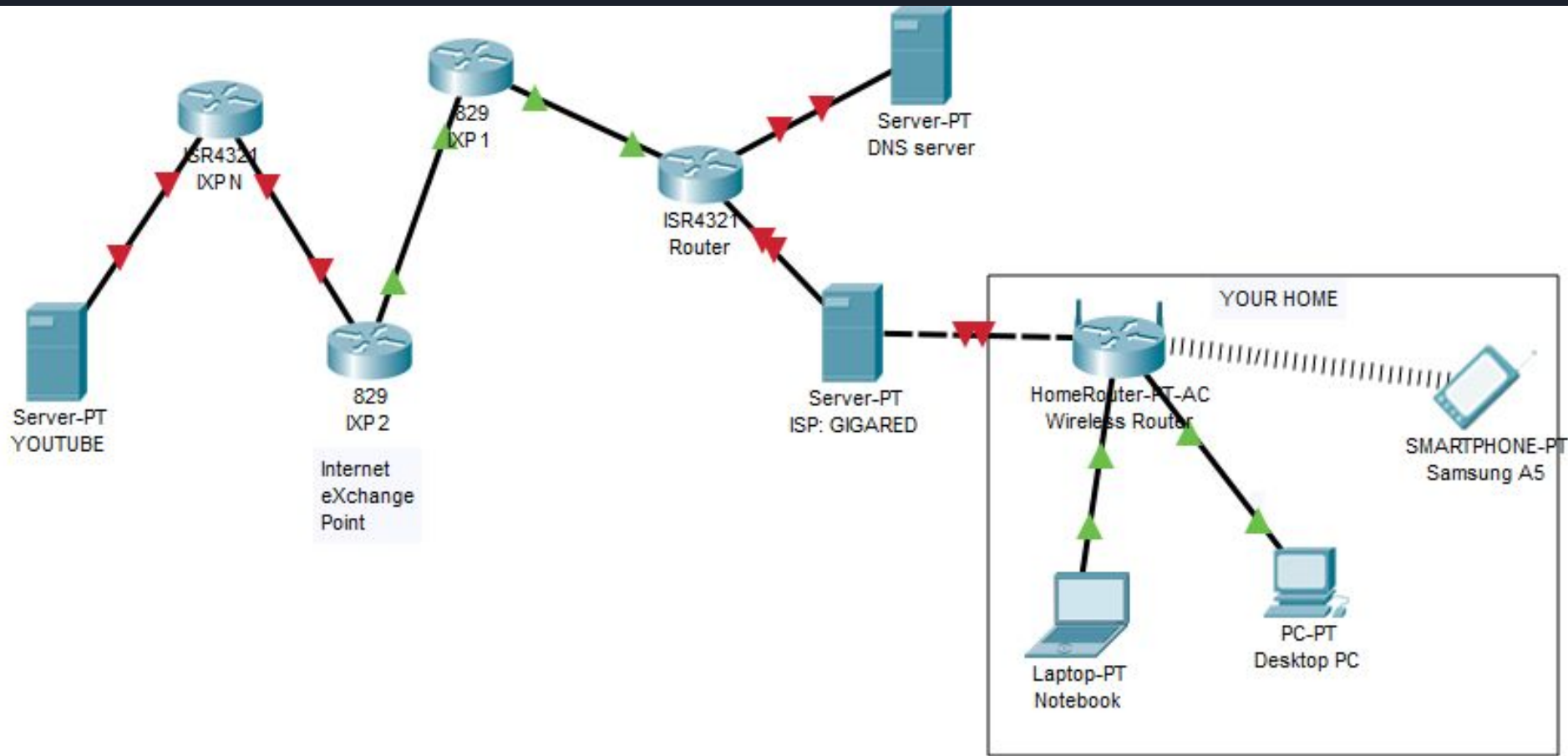
# How does my ISP know where is a website hosted?

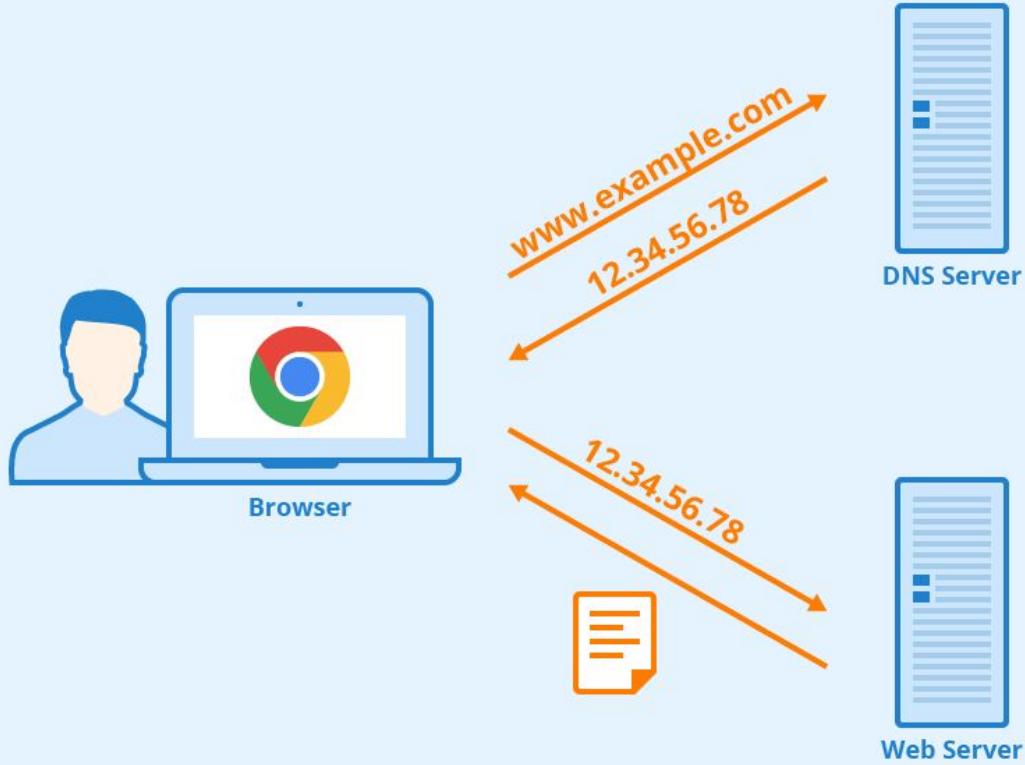
DNS Server (Domain Name System).

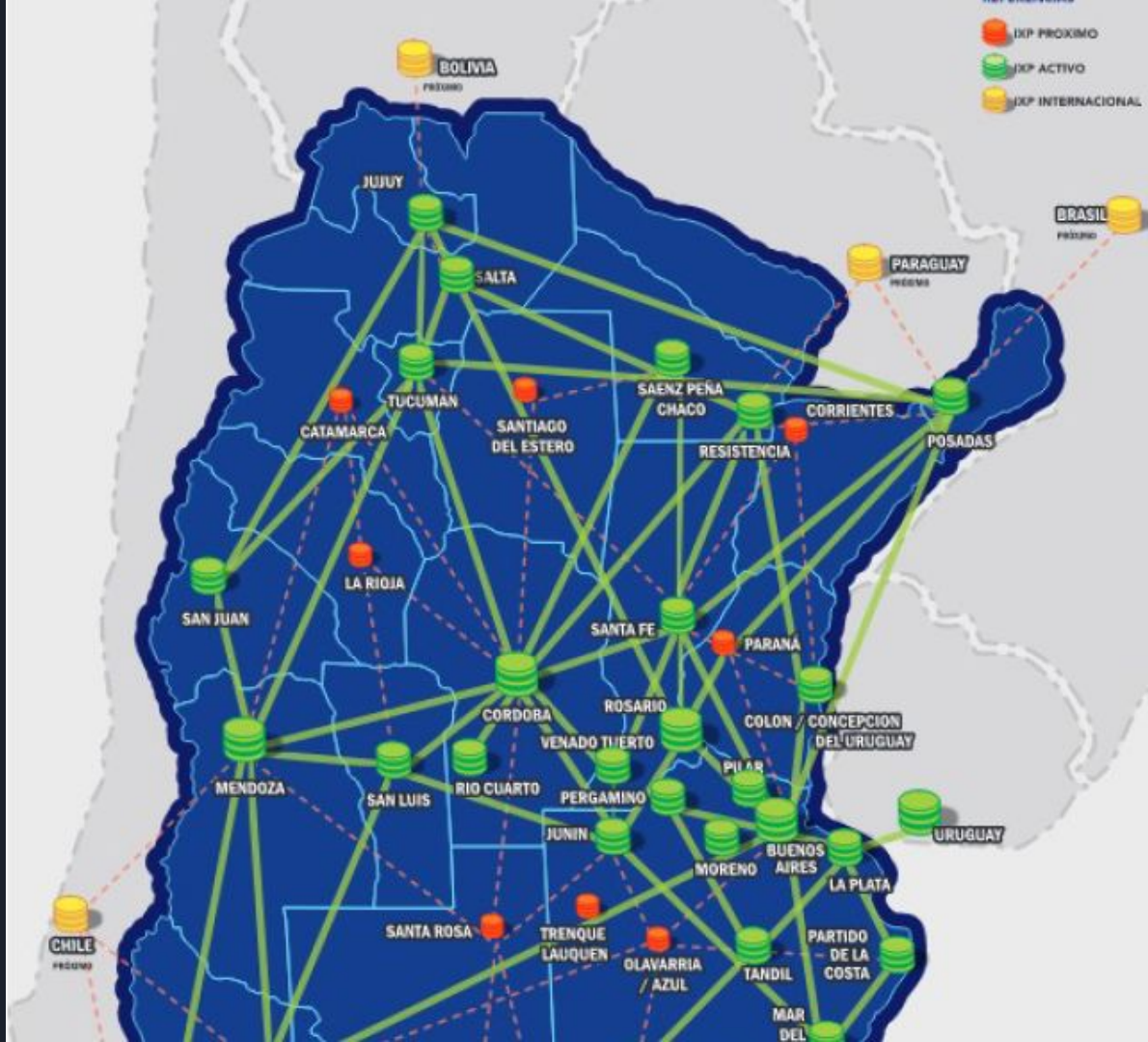
Which IP belongs to which domain

```
241  www.google.com == 8.8.8.8
242  www.youtube.com == 172.217.172.46
243  www.zoom.com == 3.235.96.10
244  ... ..
245
```









[illegible]