

15/4/21

Web-Development...

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* Web-Development Overview →

- In order to see how a website works first we need to understand that how internet works.
- Internet is nothing just a long wire on which several machines are being connected. These machines can be a computer or a router.
- for our websites to work 24x7 we need machines which can run 24x7, and we call these as "servers".
- Servers have storage, CPU's and are connected to internet 24x7 in order to make our websites work 24x7.

* What happens after you hit a URL?

- Suppose, I entered www.myntra.com then how is the server going to redirect us to the same.
- Every website has an ip address.

Domain name is used by us 'humans' to go to the desired location.

Whereas the machines use IP addresses

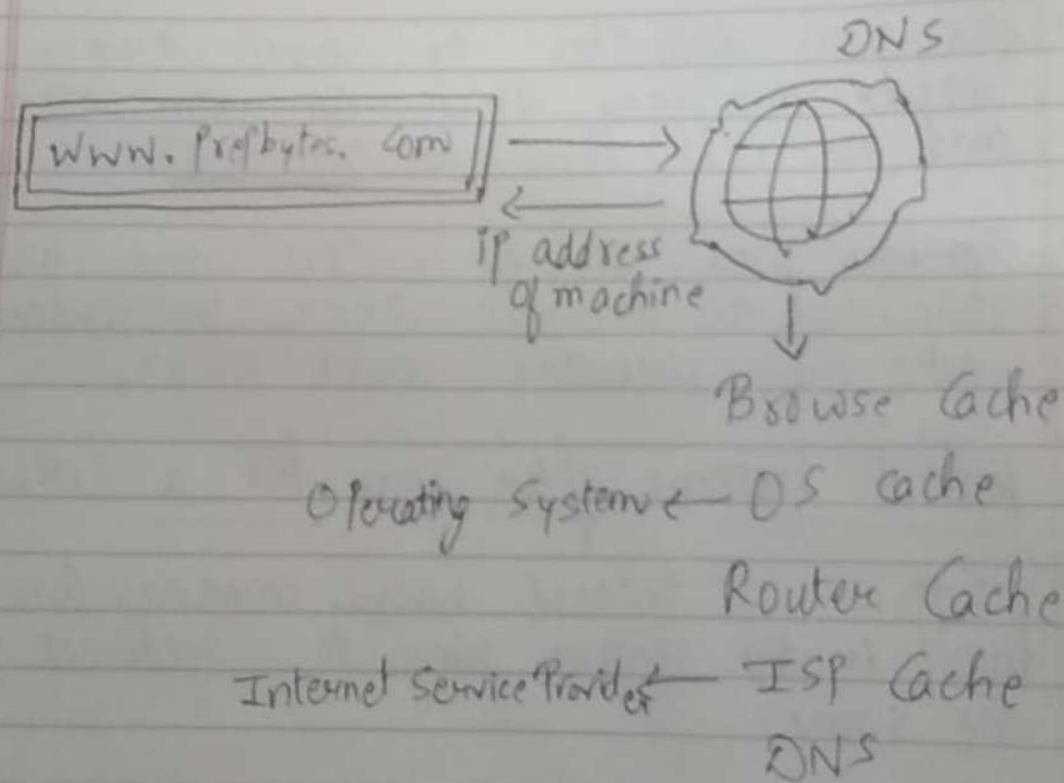
for every domain name.

So, in order to translate the domain name to the ip address we need someone

that is 'Domain Name System' (DNS)

→ It is a large database that maintains the mapping of domain name to ip addresses.

* IP address is a unique address...

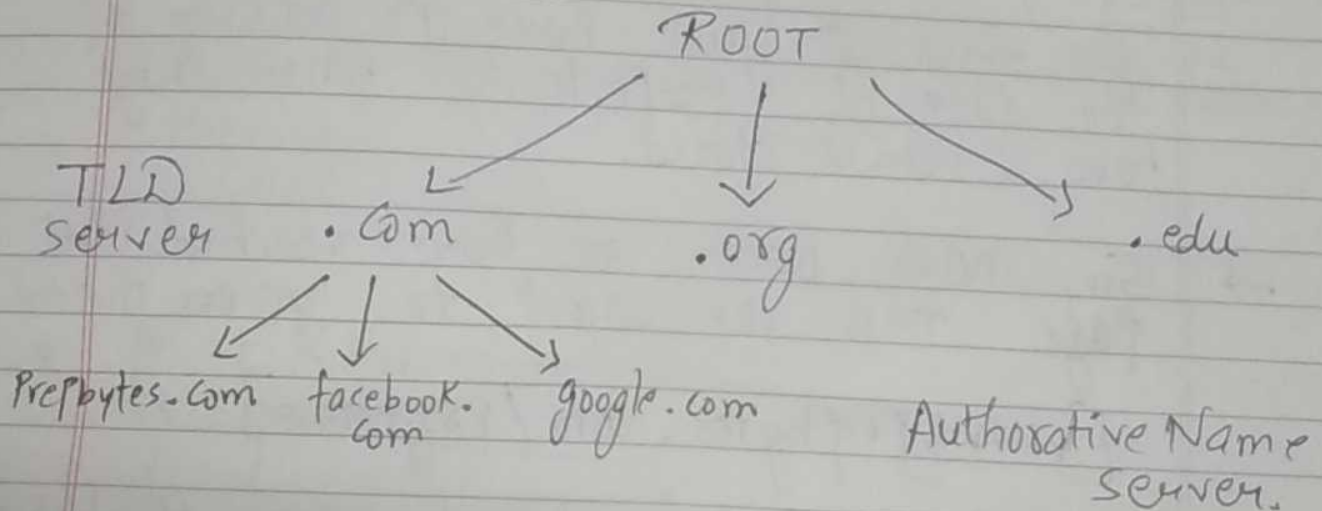


Once the user enters an url what it does is it looks for ip address in the browse cache if the same url has been previously used it returns the ip from

there itself and if not it goes to OS, then router, then ISP and if none of these returns the ip, then it goes to DNS in order to search for ip address.

* How does it work?

Domain Architecture



- Now, what DNS does is, it goes to every server in order to look for the ip address.
- firstly it goes to Root Name Server and will ask for ip address.
- The Root Server has ip addresses of .com, .org and .edu
- There is a hierarchy to maintain the ip addresses as it will be a huge database.

- These .com, .org, .edu are known as "Top Level Domain Servers".
- So, since the user entered has .com, so, it will further look into .com part and it will ask Authoritative Name Servers to return the IP address of prebytes.com.
- So, now we just have IP address of the files of prebytes.com where they have been stored.
- So, now once we have reached that page now we want to access the →
[www.prebytes.com/programs]

So what machine does is once the browser has the IP address it goes to the machine and in the code there are different web sections with the code available for them.

So, now once you reach machine ~~the~~ it takes all the code and paste it into the browser and now it is the code's problem to render and which particular file is to be shown for "/programs".

This is known as "Routing".

* How Website Works?

→ So, for now when you can see the homepage of the website you desired for

