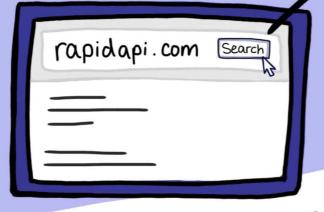


DNS stands for Domain Name System

DNS is the system that translates domain names into IP addresses.

rapidapi.com



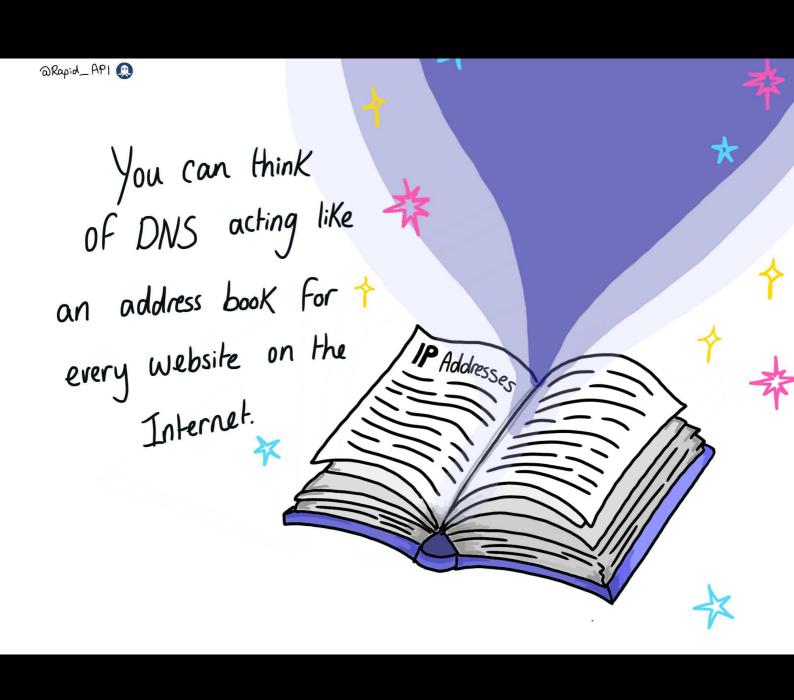


Computers and Servers use
1P addresses to identify
Websites and olirect your

2606:4700:3108::ac42:2918

browser to the correct

one.



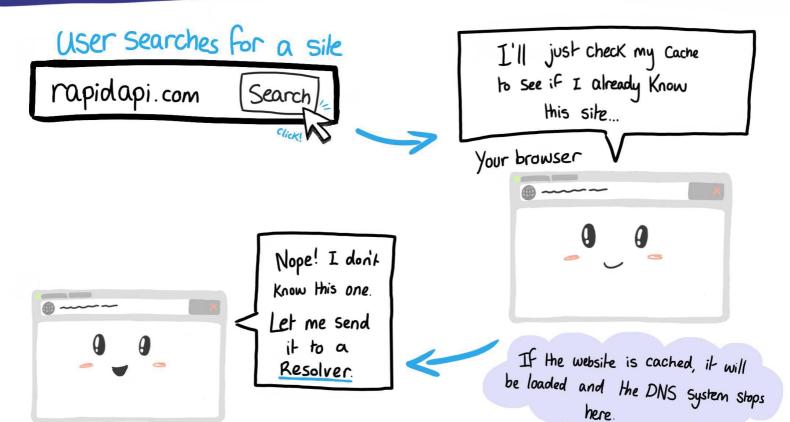
@Rapid_API (1)



There are 5 basic Steps in the DNS System:



DNS Cache





Step 2 Resolver Server



Request For rapidapi.com



Resolver Servers are typically managed by your ISP (internet Service provider)

Oh a new request! Let me check my cache...

... I can't find it. I'll ask a Root server to help.





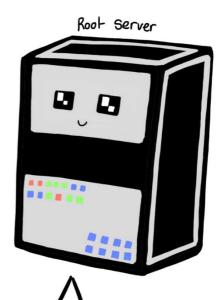
Step 3 Root Server

rapid api.com



Root Servers sit at the top of the DNS hierarchy. They redirect Resolver Servers to another type of server called TLD servers.





I don't know this site, but I can redirect you to the .COM TLD server!

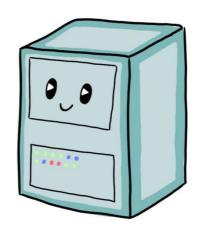




Step 4 TLD Server

There are TLD Servers for domain endings (.com/.org./.net etc), as well as country codes, like .de for Germany, or .in for India.



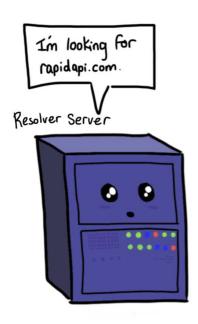


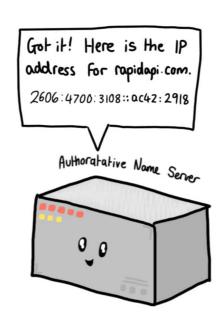
I don't know the IP address for rapidapi.com, but I can redirect the Resolver to the correct Authoratative Name Server





Step 5 Authoratative Name Server





Authoratative Name Servers are responsible for knowing everything about the domain.

The Resolver can now Send the IP address back to the client.



