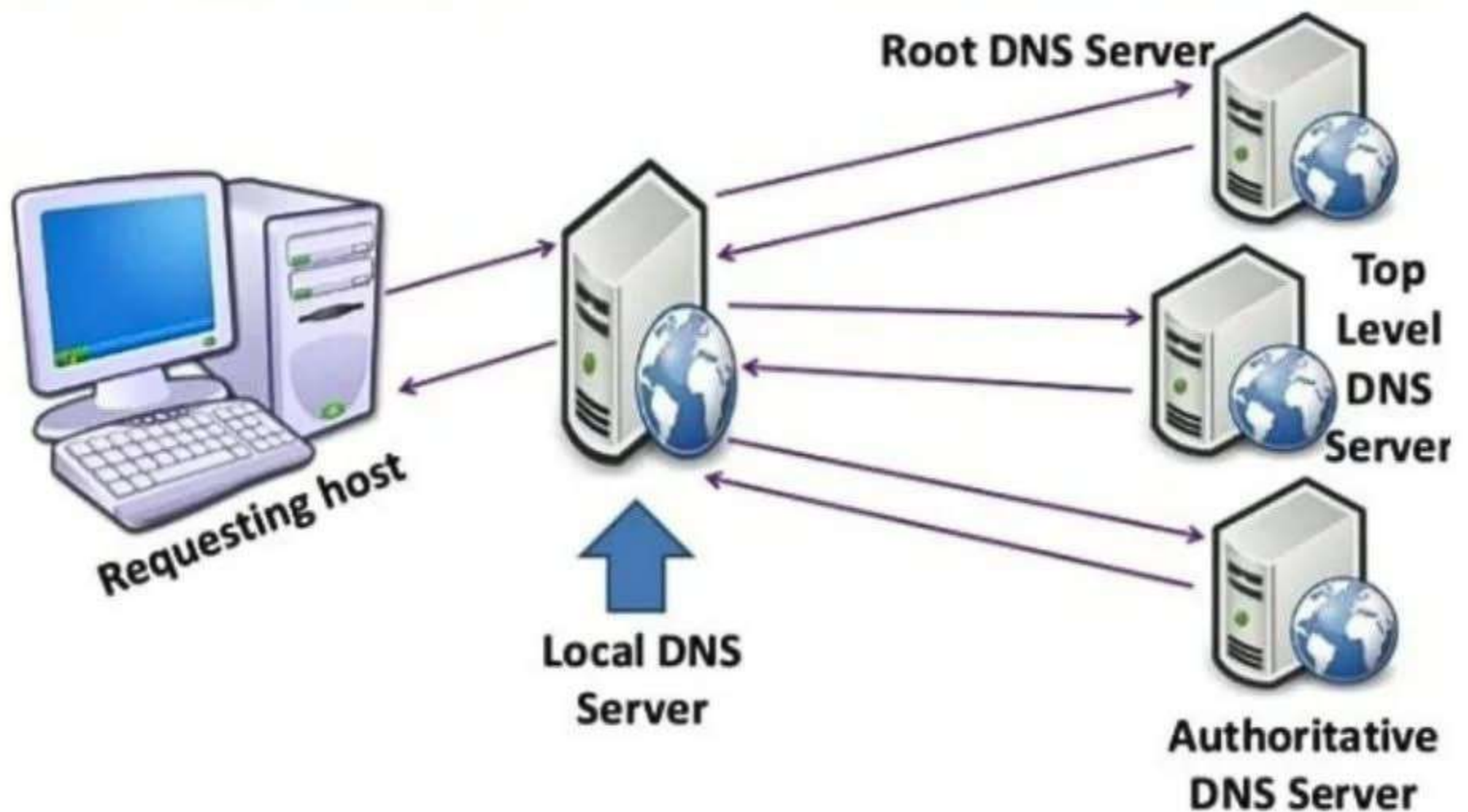# What is DNS?
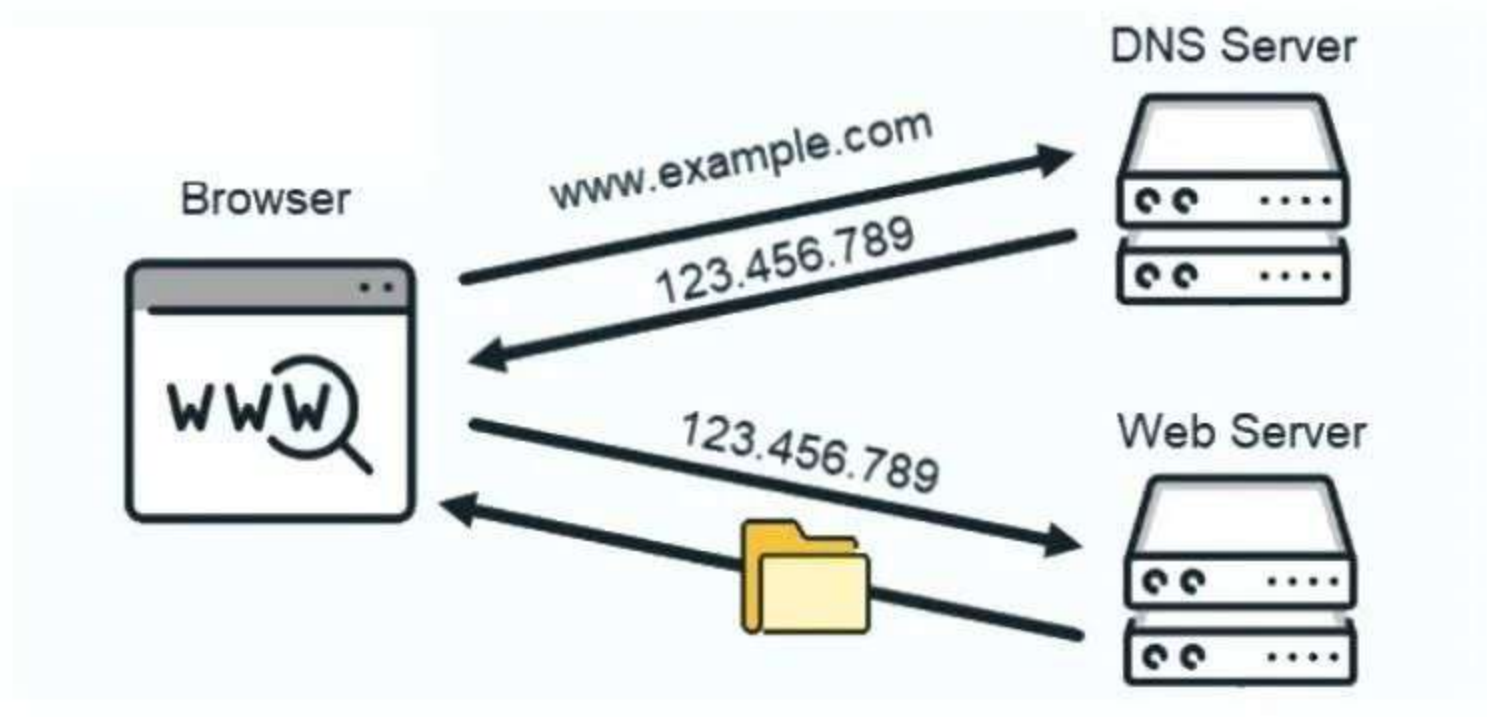

Swipe>>

What is DNS?

DNS (Domain Name System) translates domain names (e.g. www.abc.com) into IP addresses (e.g. 192.0.2.1).

DNS acts as "phonebook" of the internet, allows to use simple names instead of long numeric addresses to access websites and services.

How **DNS** Works?

1. You type a **domain name** (e.g, www.abc.com).
2. DNS resolver checks its cache, then queries the **root DNS server**.
3. It gets directed to the **TLD server.**
4. TLD server sends the request to the **authoritative DNS server**.
5. The authoritative server returns the **IP address**.
6. Your **browser uses the IP** to connect to the website

From Client → DNS Recursive Resolver → DNS Root Nameserver → DNS TLD Nameserver → Cloudflare.com Authoritative Nameserver