

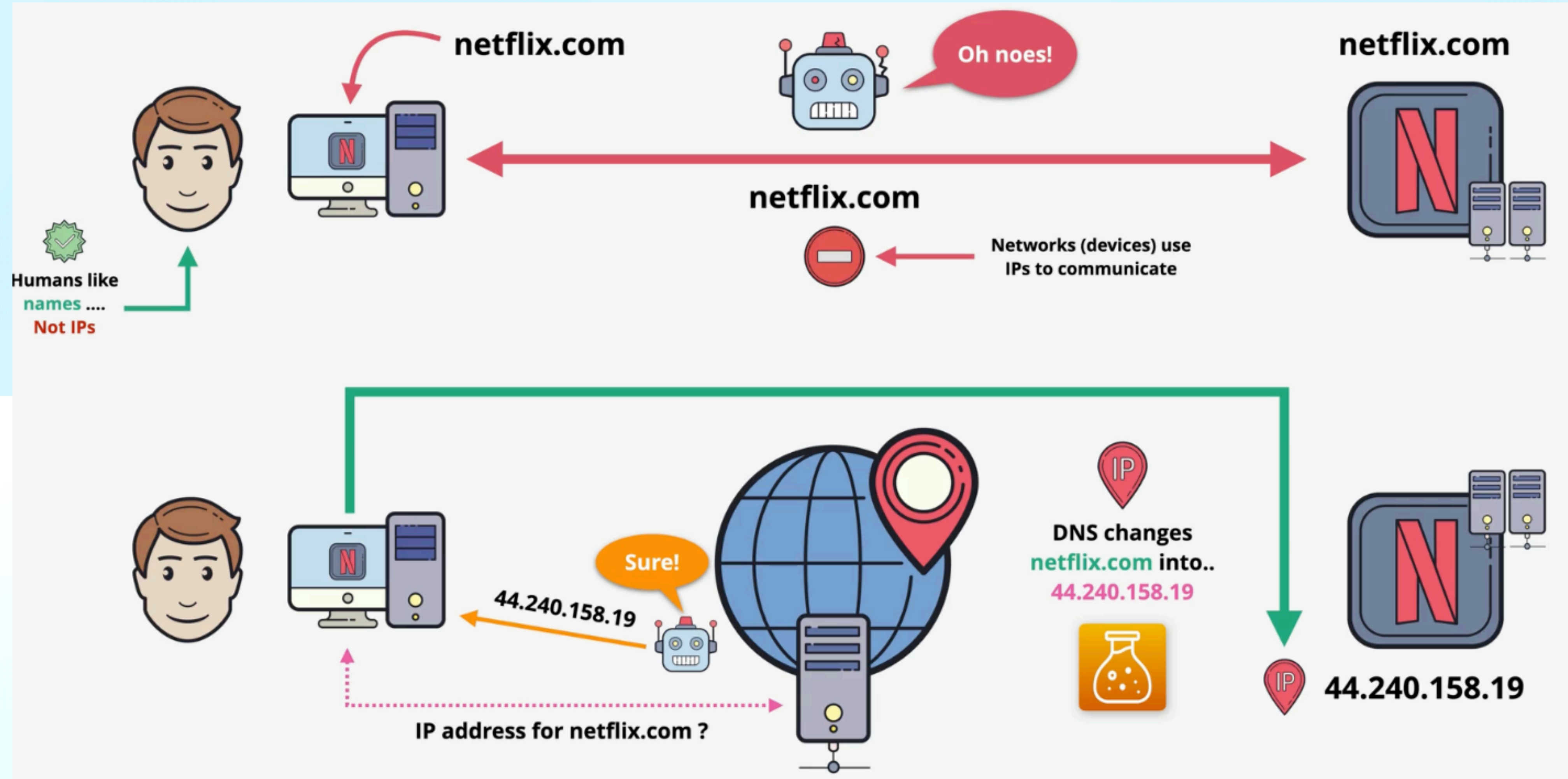
# **DNS and Route 53**

# Today's Agenda

- What does DNS do?
- DNS Architecture
- Route 53
- DNS Registration



# What does DNS do?

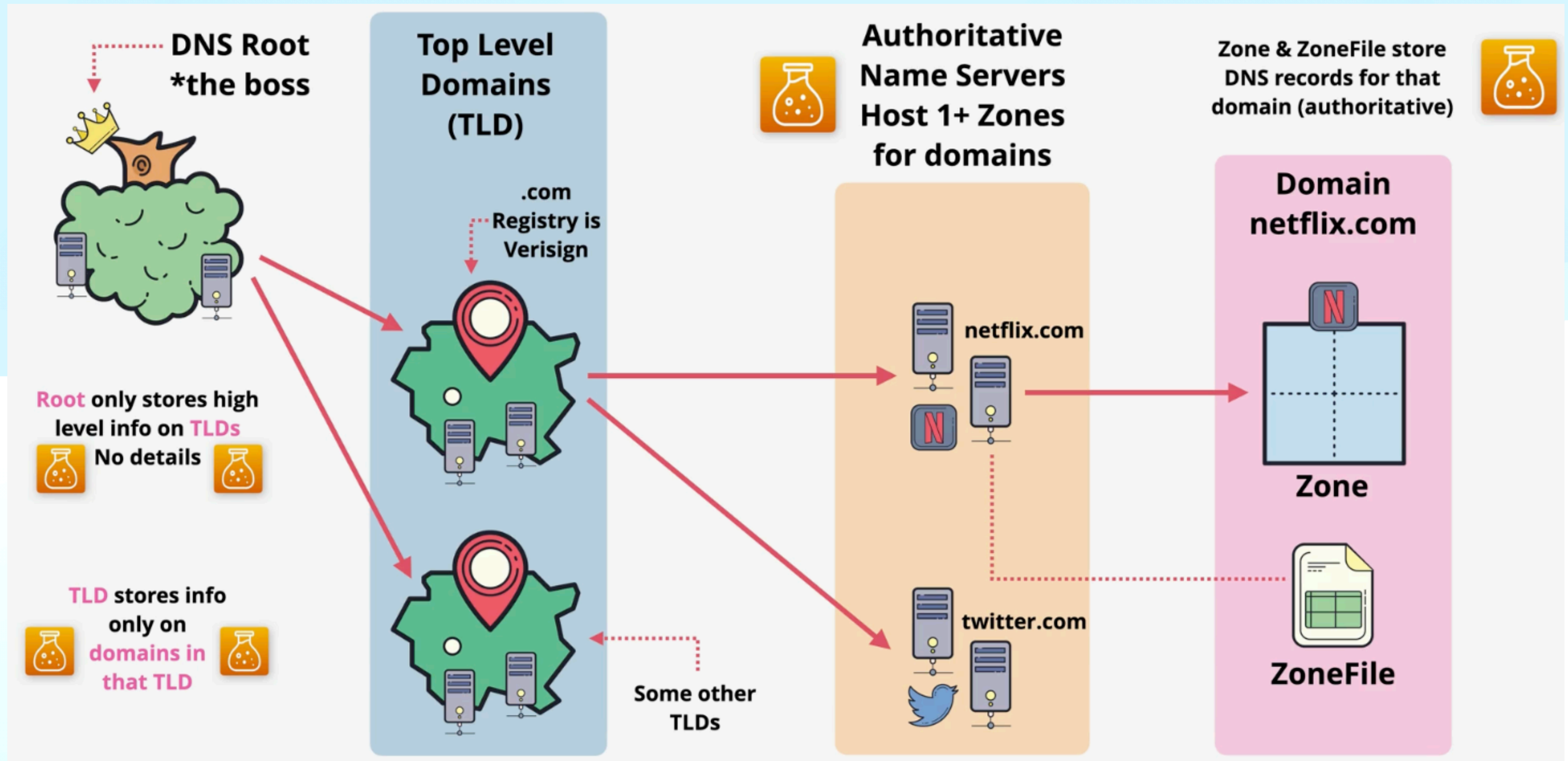


# DNS - Key Terms

- DNS Zone - A Database. E.g \*.netflix.com containing records
- ZoneFile - The file storing the Zone on a disk
- Name Servers (NS) - DNS Server which hosts 1 or more Zones
- Authoritative Response
- Non-Authoritative or Cached Response - This speeds the responses.

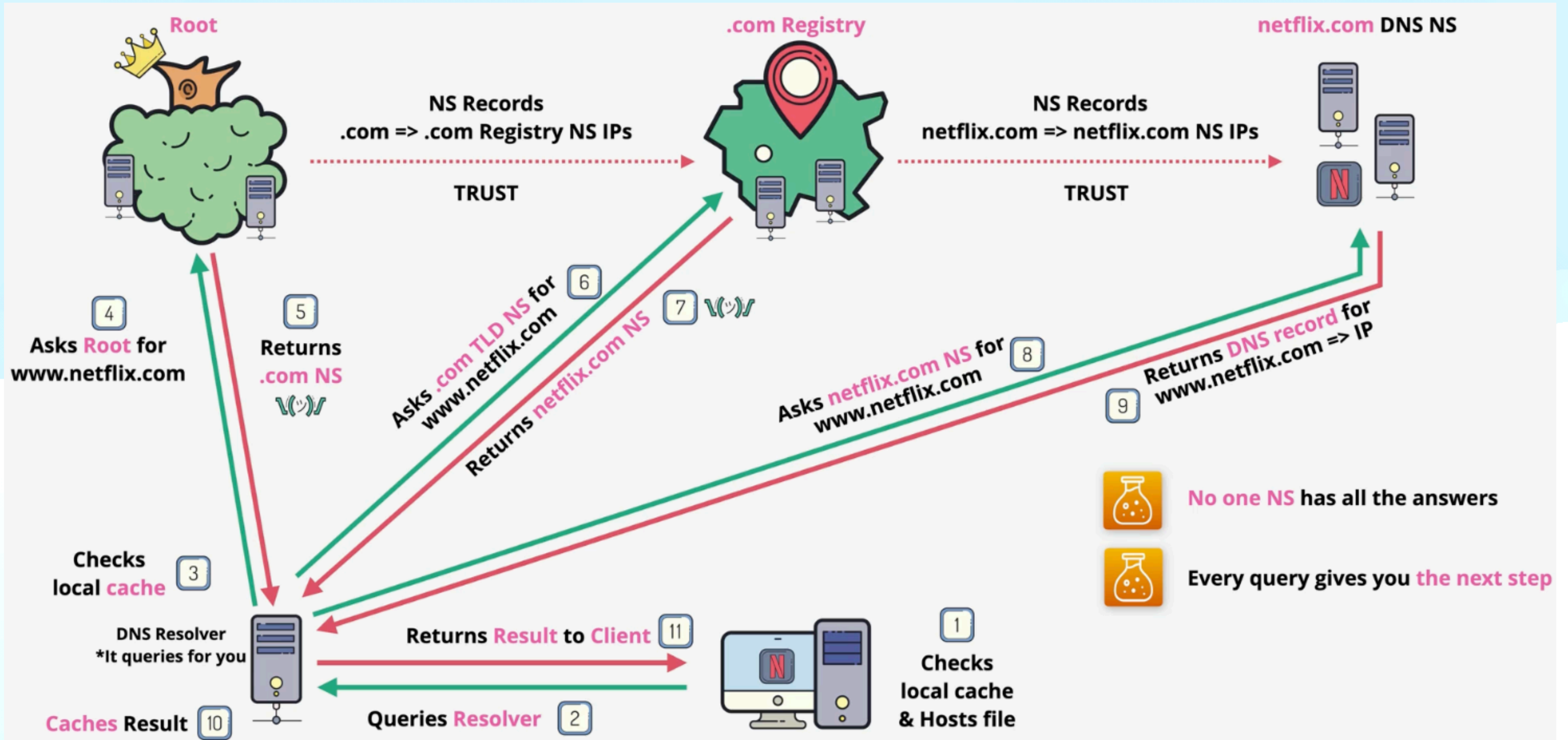


# DNS Architecture

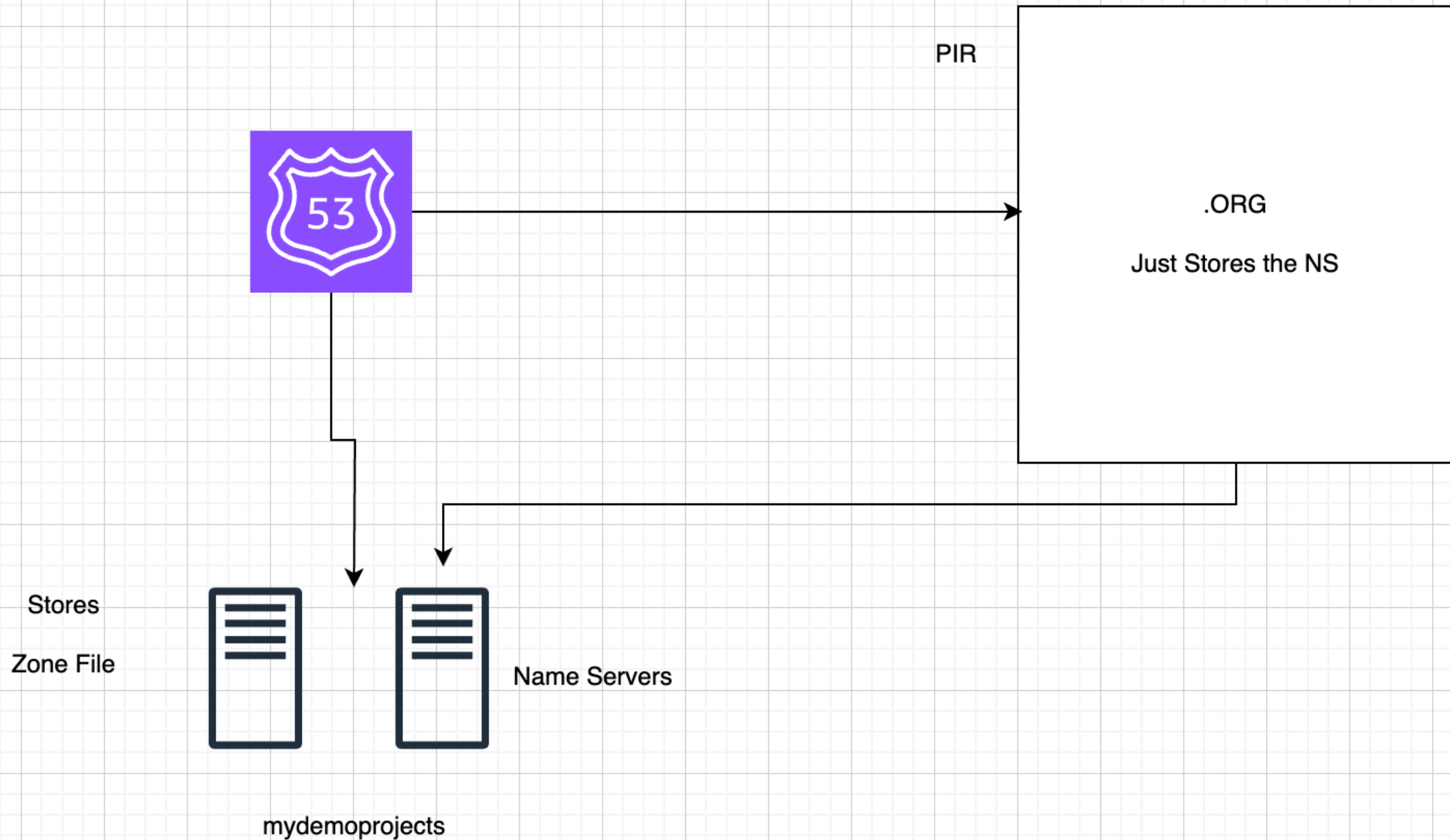




# DNS Architecture

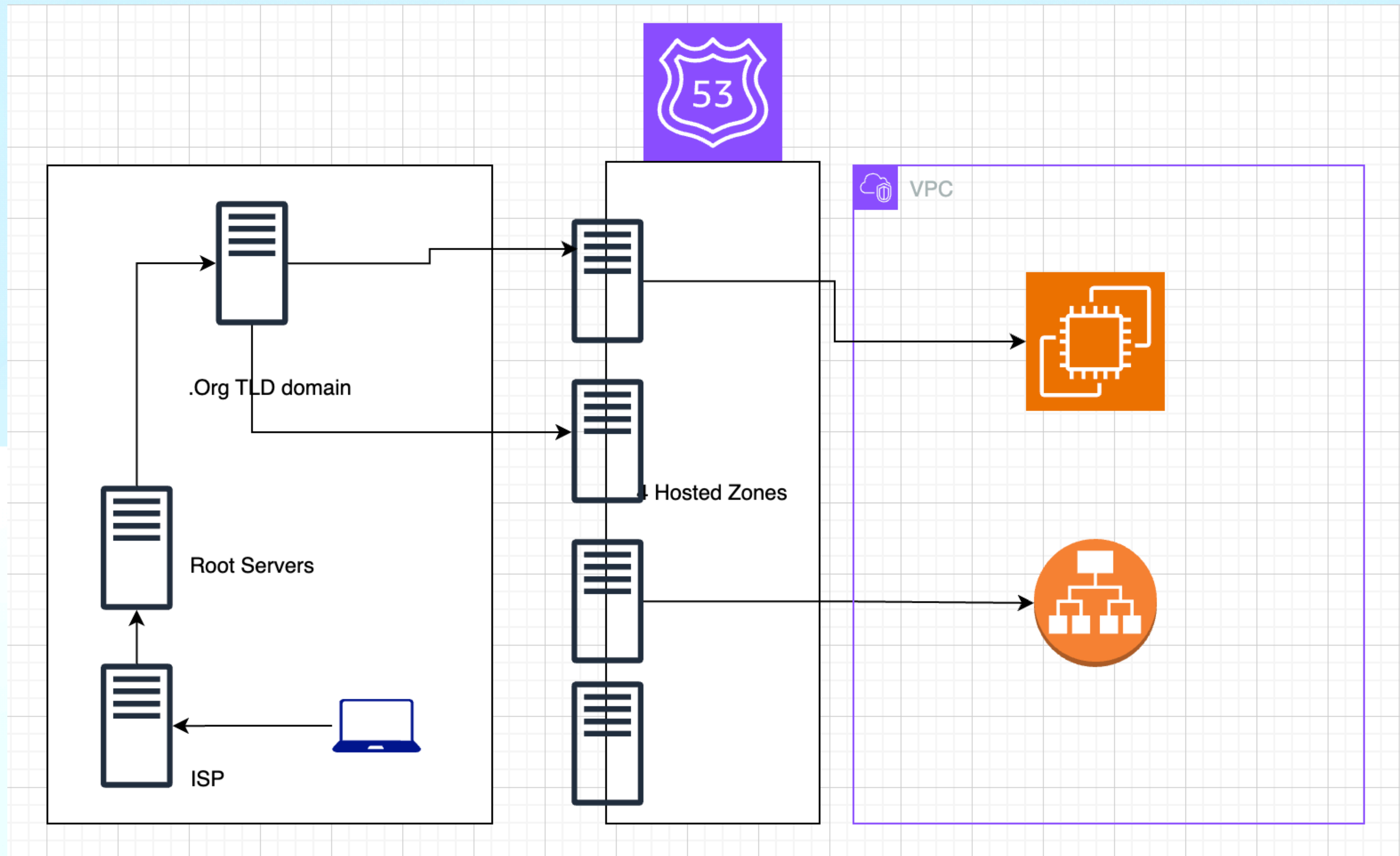


# Route 53 Registration and Hosting



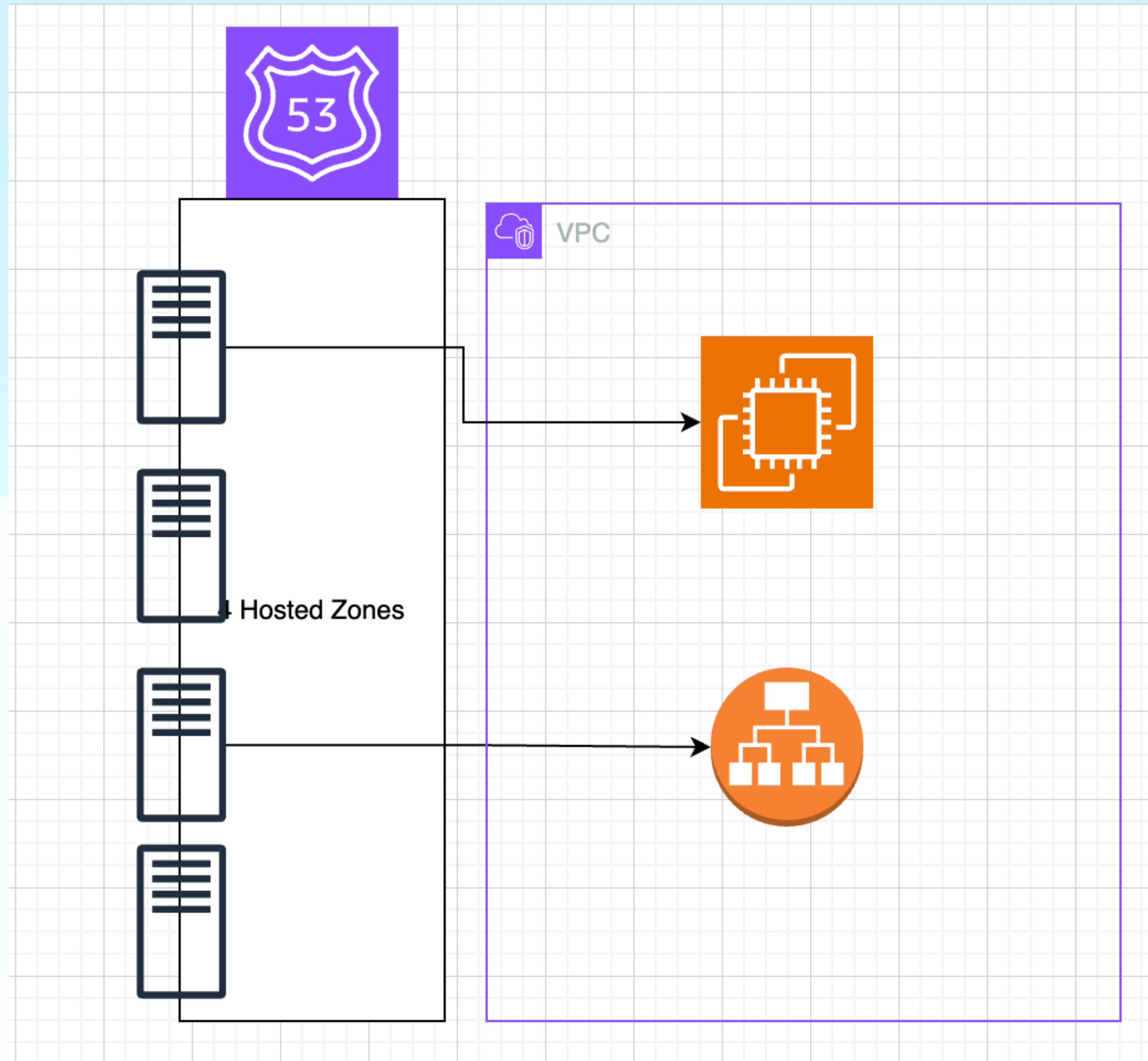


# Route 53 Public Domain





# Route 53 Private Domain



# Route 53

- It can register domains and host it.
- Global Service.
- Route 53 provides Hosted Zones which are actually Databases where the DNS records (Zone File) get stored.
- Route 53 hosts 4 name servers for each domain and store Zone file in it.
- It can be public or private zones.



# Route 53 Record Types

- “A” records maps to an IP address
  - Ex: google.com => 8.8.8.8
- CNAME maps a NAME to another NAME
  - Ex: www.google.com => google.com
- ALIAS records map a name to an AWS resources.

# Routing Policies

- Simple Routing
- Weight Based Routing
- GeoLocation Routing
- Latency Routing
- Failover Routing



**QUIZ TIME**

# Q & A