



**BATCH** : BATCH 85  
**LESSON** : AWS  
**DATE** : 07.09.2022  
**SUBJECT** : AWS Route 53



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# AWS Route 53





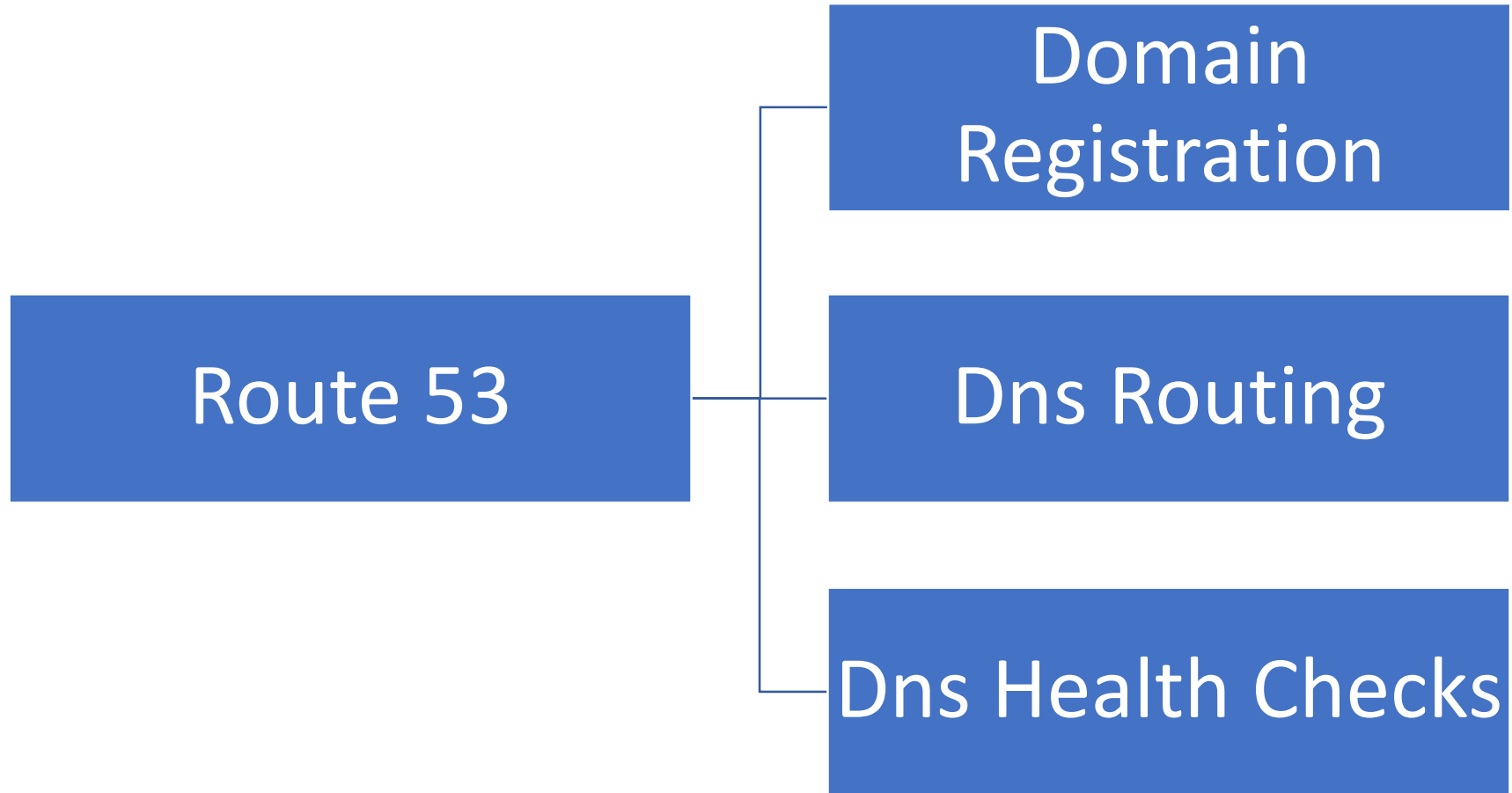
# What is AWS Route 53?



- ▶ Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service.

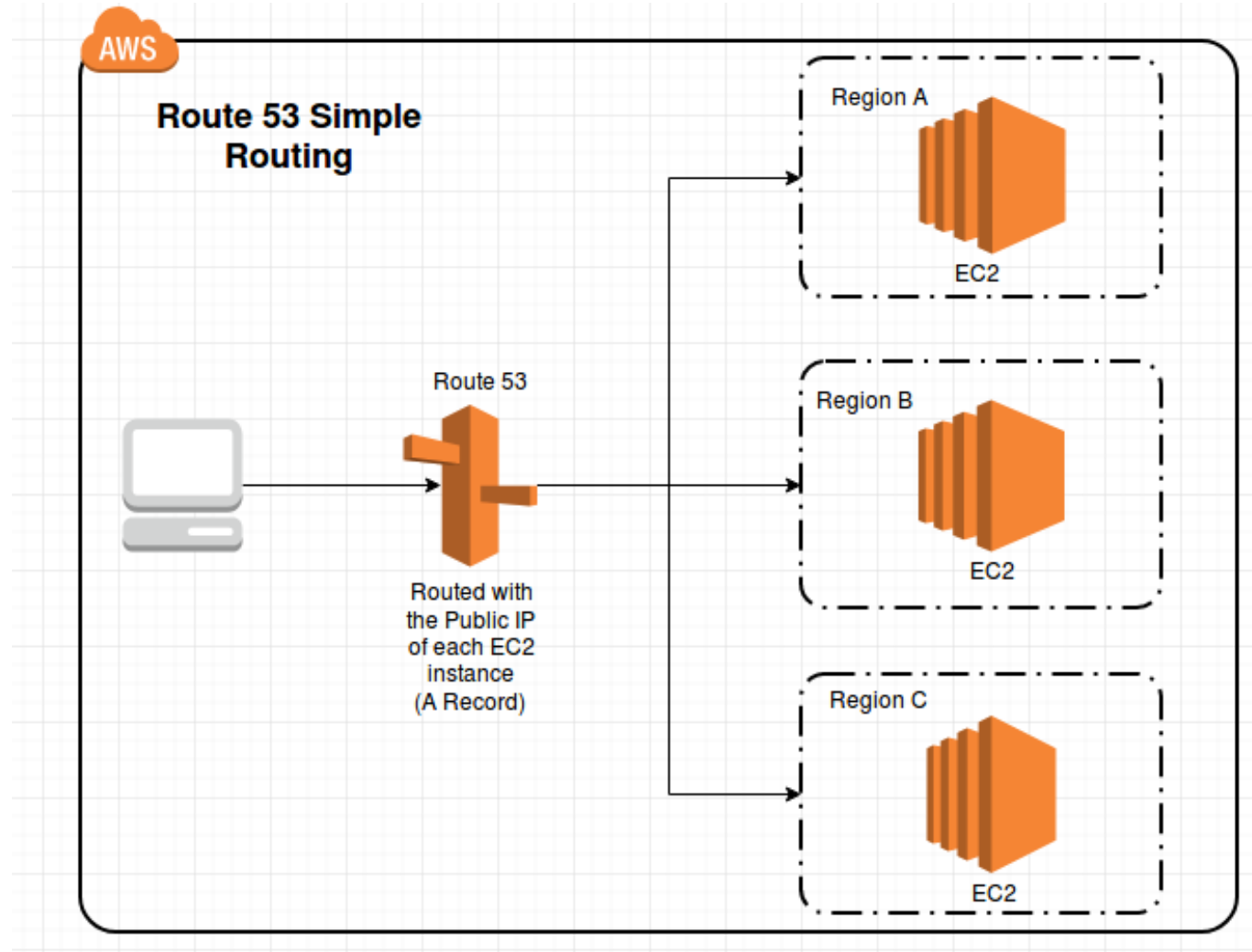


# What is Amazon Route 53 used for?





# What is Amazon Route 53?





# What is DNS ?



- DNS stands for the Domain Name System. It is a system used for transferring human-readable domain names such as `www.techproeducation.com` to a machine-readable IP address such as `1.2.3.4.5`



# Concepts of Amazon Route 53

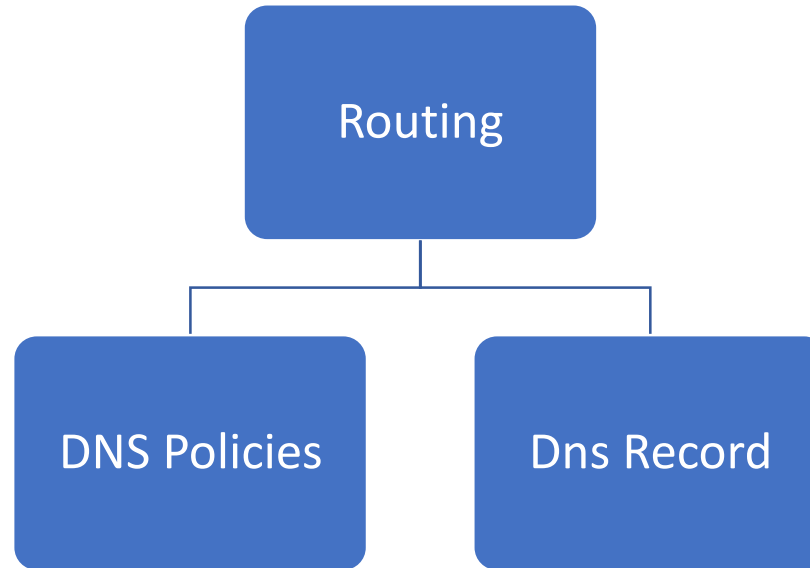
**https://www.techproeducation.com (.)**



- › Root, TLD (top level domain), domain name, sub domain name, FQDN (fully qualified domain name)
- › Registrars, GoDaddy, Amazon Route 53
- › Zone File contains DNS records
- › Name Server resolves DNS queries
- › Authoritative: customer can update records
- › Non-authoritative



# Concepts of Amazon Route 53



- Route 53 direct the internet traffic by providing a connection and mappinf between your domain and web server.
- Route 53 routes the web traffic of your domain with the help of the DNS Record Sets and DNS Policies.





# Concepts of Amazon Route 53

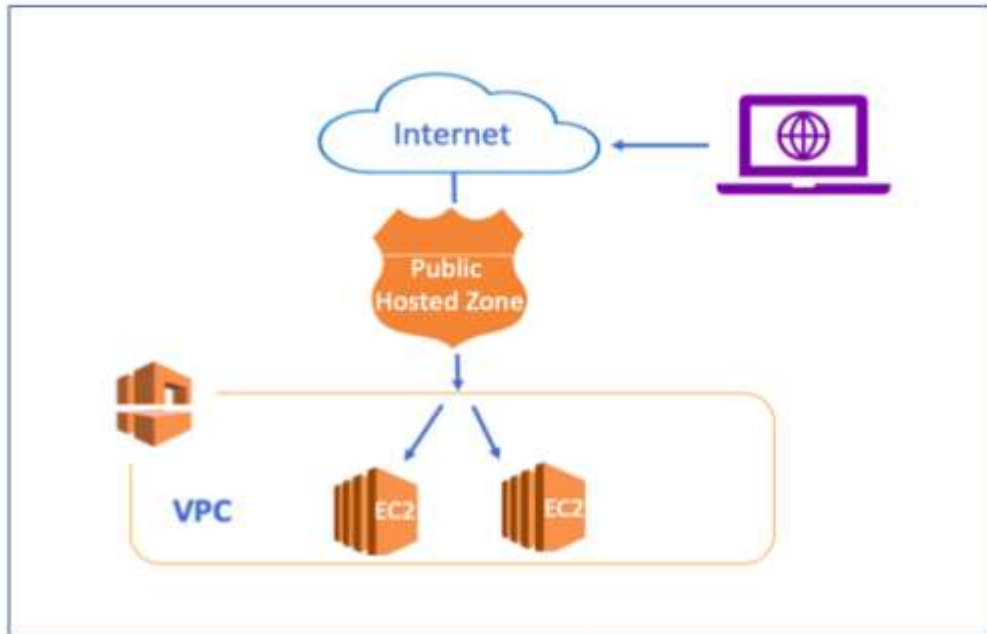
Time  
To  
Live

- ▶ TTL is a parameter that determines how long ISPs (Internet Service Provider) will cache the DNS record.
- ▶ If the DNS resolver receives a request for the same domain before the TTL expires, the resolver returns the cached value.
- ▶ It decreases the workload of the name servers.

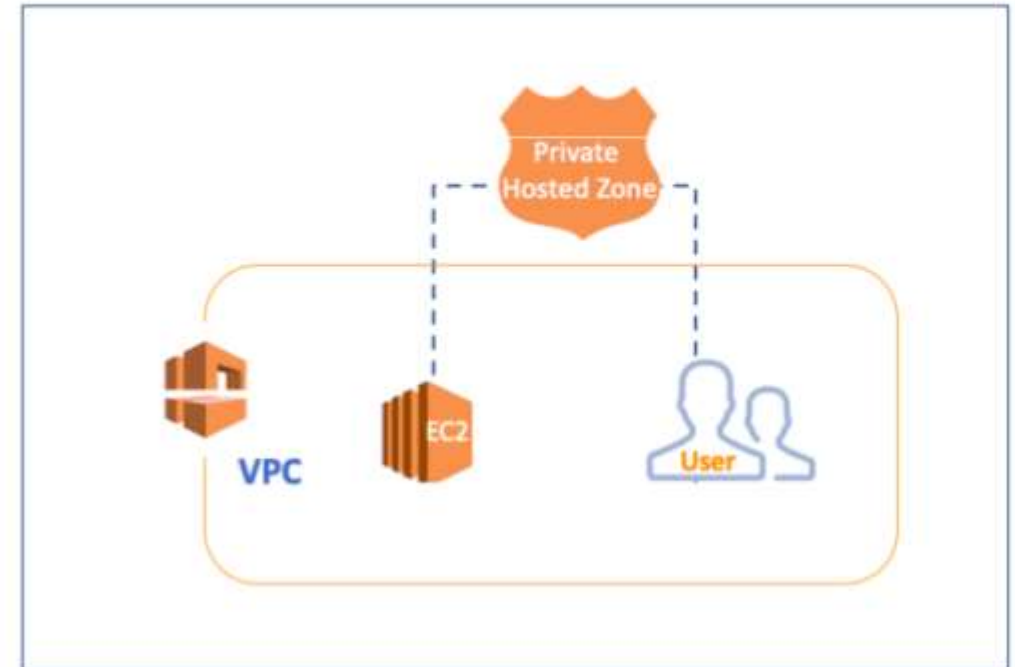


# Components of Amazon Route 53

Public Hosted Zone

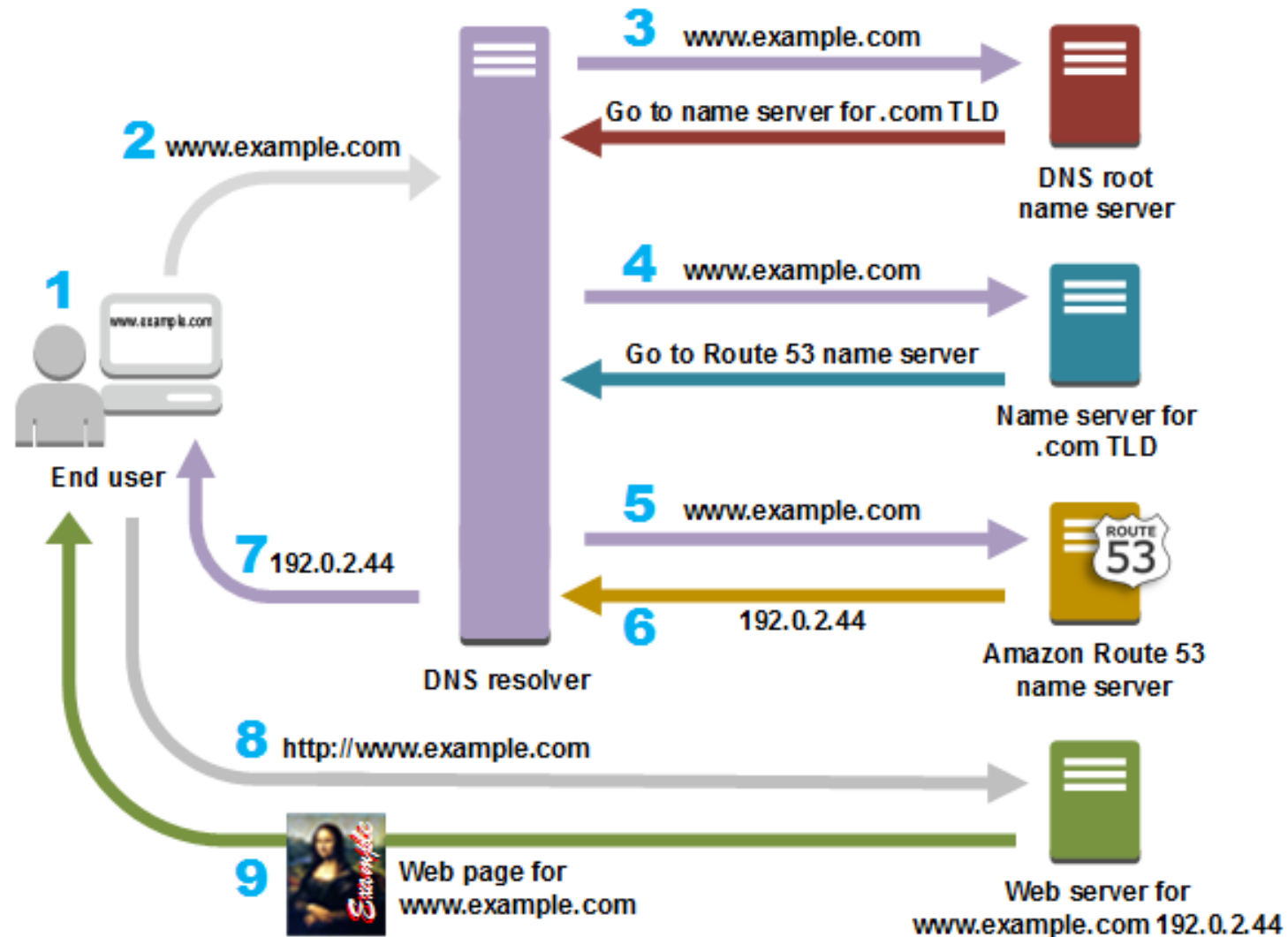


Private Hosted Zone





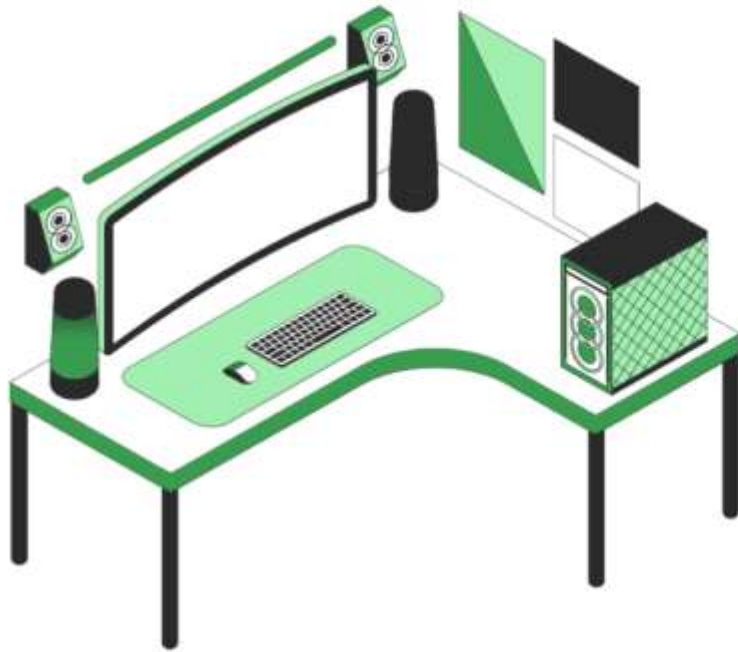
# How Does DNS Route Traffic To Your Web Application?





# Components of Amazon Route 53 (DNS Records)

- › NS (Name Server Record)
- › SOA (Start of Authority Record)
- › A (Address Record)
- › CNAME (Canonical Name Record)
- › PTR(Pointer Record)
- › TXT(Text Record)
- › CAA (Certification Authority Authorization)
- › MX (Mail Exchange Record)
- › NAPTR(Name Authority Pointer Record)
- › AAAA(IPv6 Address Record)
- › SPF (Sender Policy Framework)
- › SRV(Service Locator)



Do you  
have any  
**questions?**

Send it to us! We hope you learned  
something new.