BATCH : 149

LESSON : **AWS**

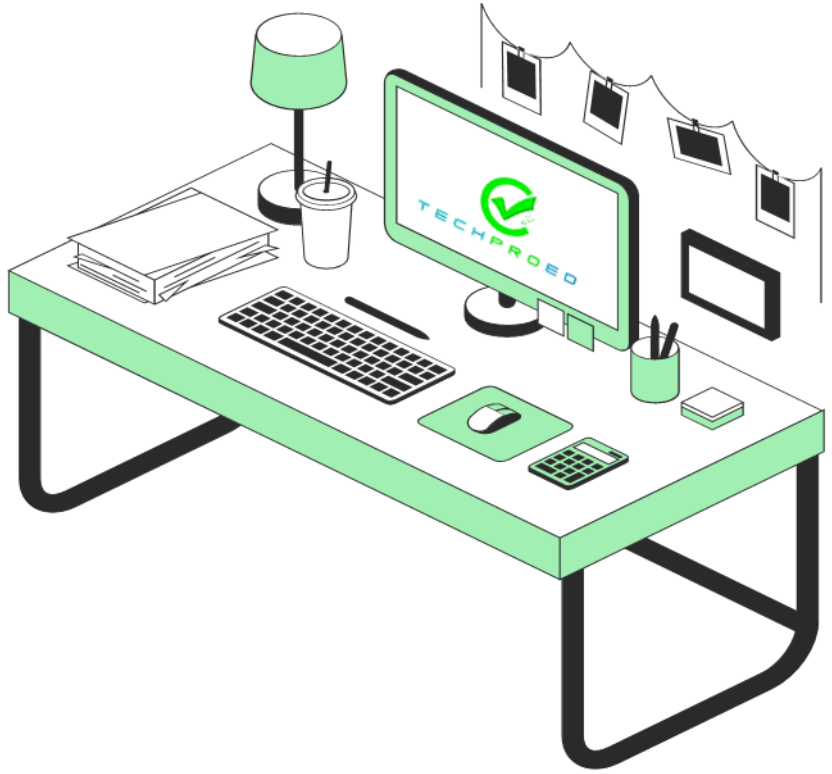
DATE : 05.09.2023

SUBJECT : **Route 53 - 1**

ZOOM GİRİŞLERİNİZİ LÜTFEN **LMS** SİSTEMİ ÜZERİNDEN YAPINIZ

Route53

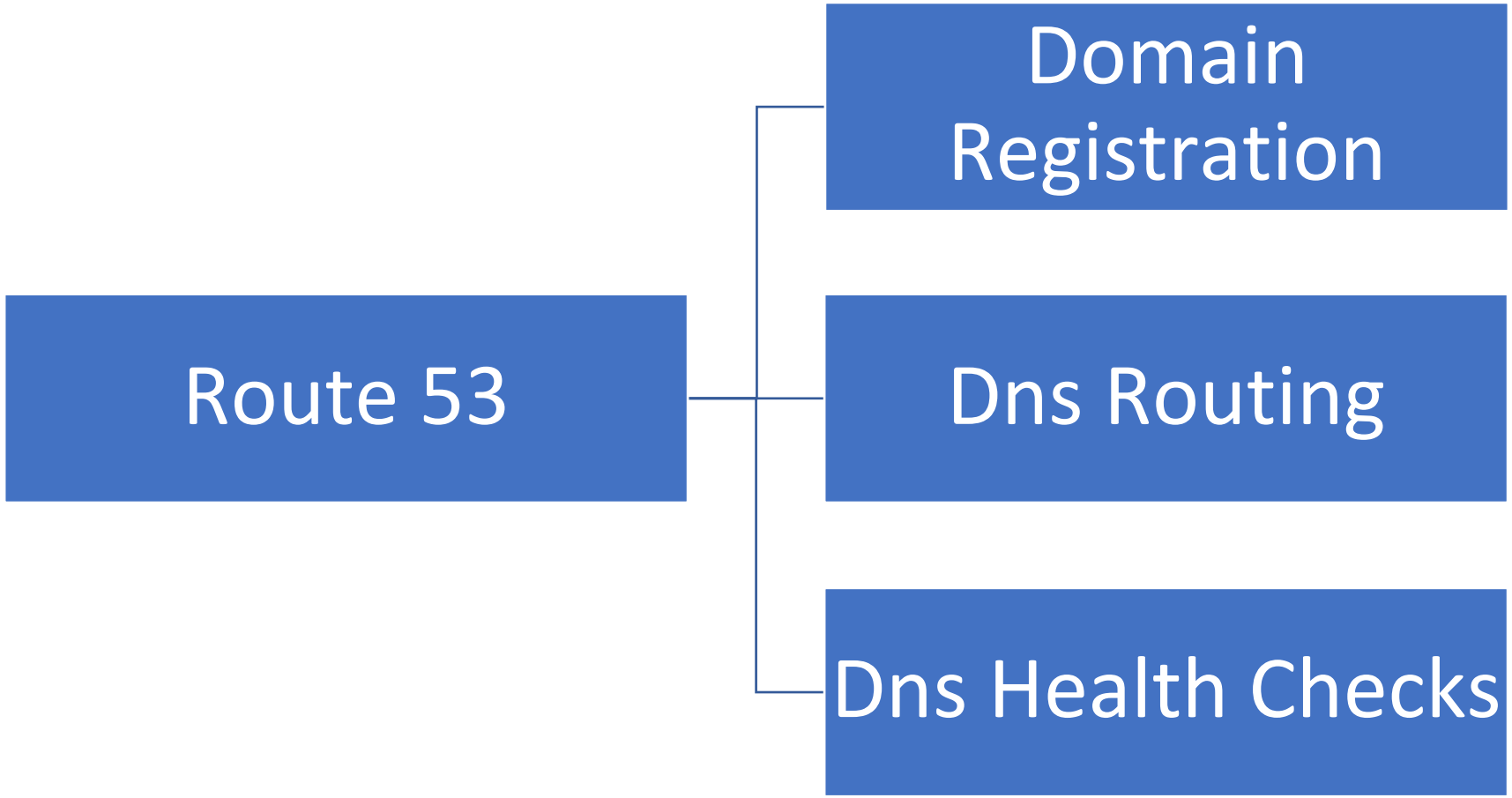
AWS Route 53



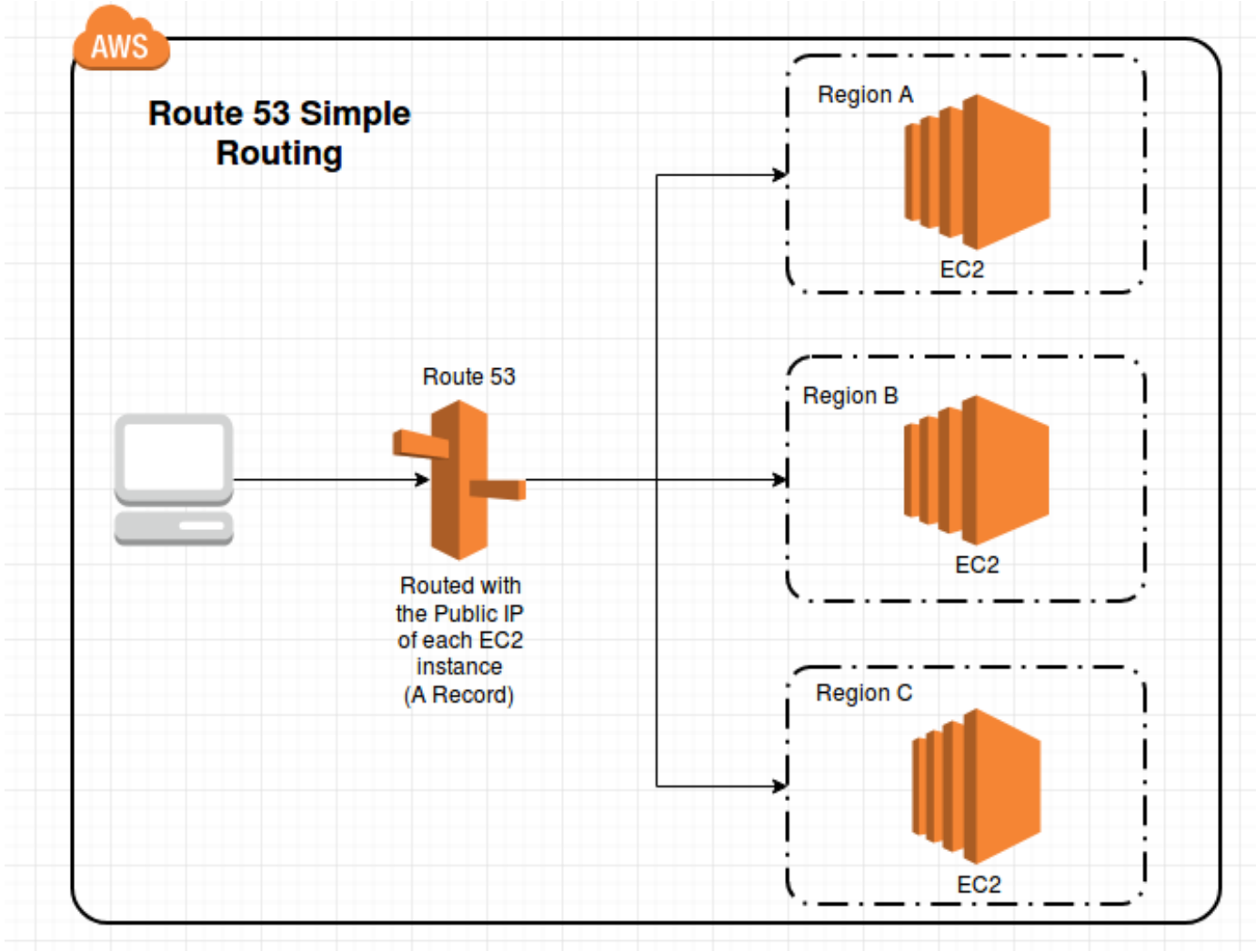
What is AWS Route 53?

- 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 like 1.2.3.4.5

Concepts of DNS

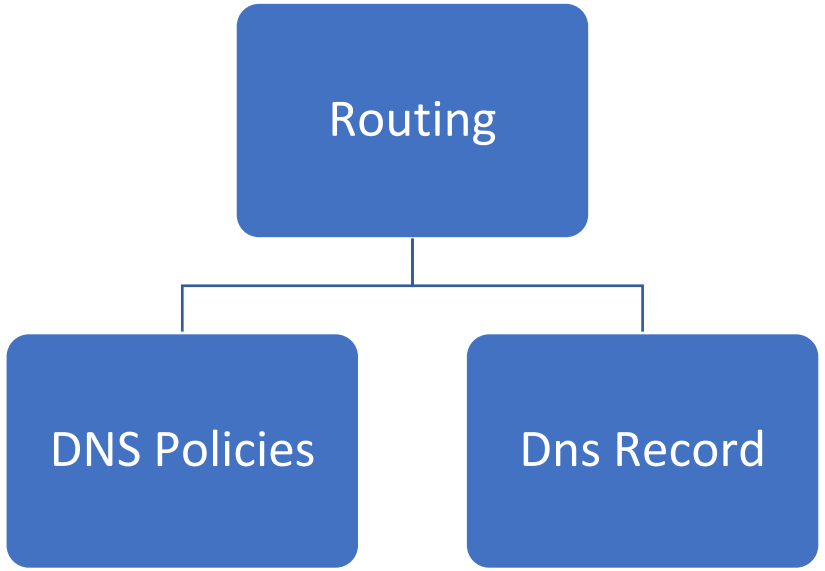
https://www.techproeducation.com (.)

- 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



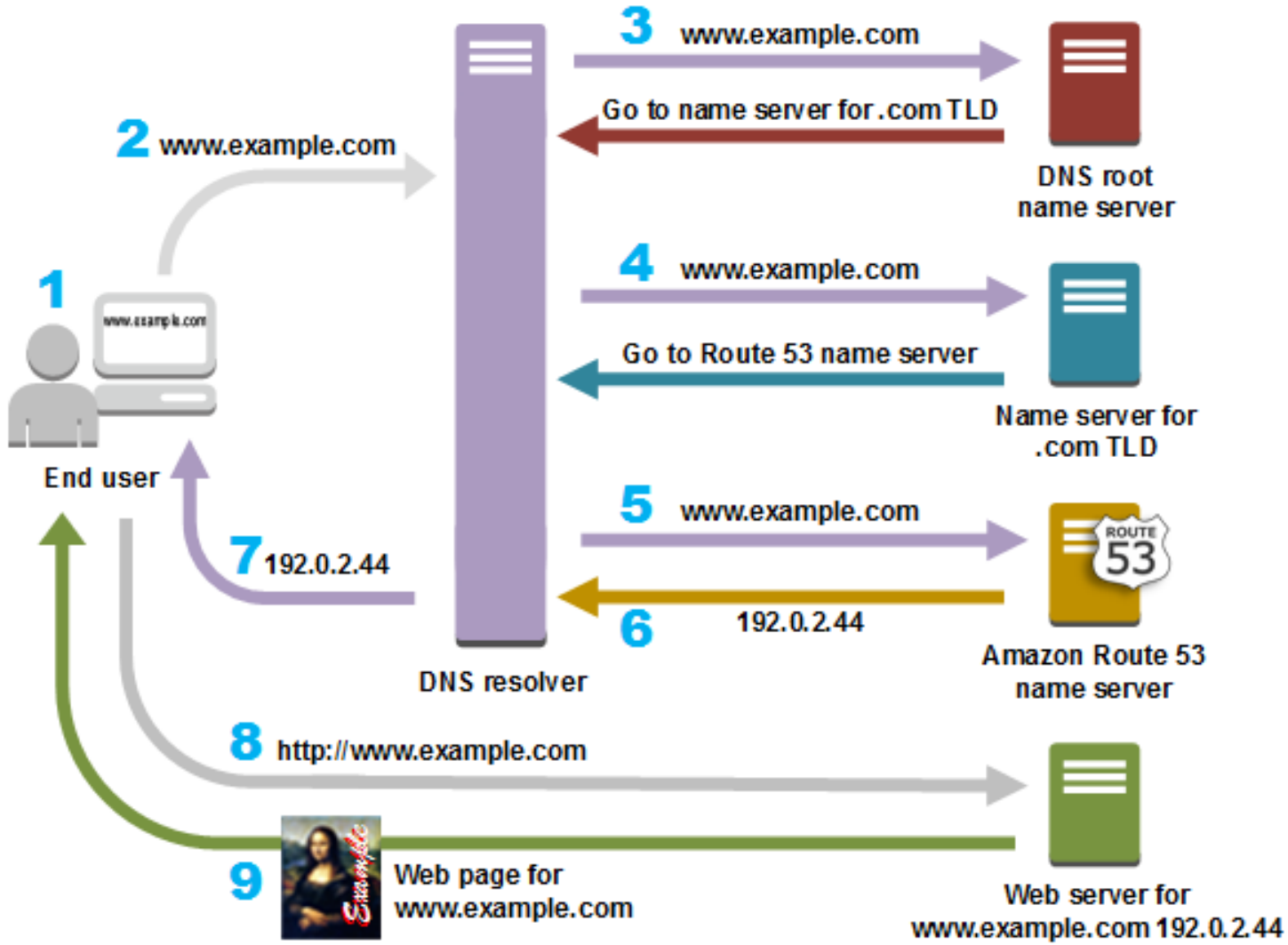
- Route 53 directs the internet traffic by providing a connection and mapping between your domain and web server.
- Route 53 routes the web traffic of your domain with the help of the DNS Record Sets and DNS Policies.

Concepts of Amazon Route 53

- **Time to live (TTL) refers to the amount of time or “hops” that a packet is set to exist inside a network before being discarded.**

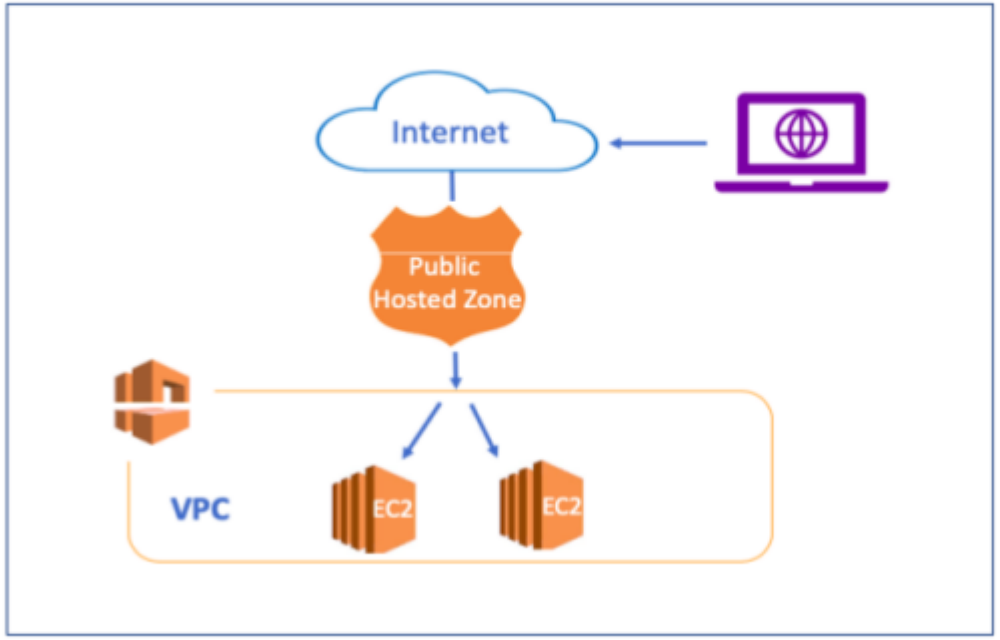
- TTL is a parameter that determines how long ISPs (Internet Service Provider) will cache the DNS record.
- If the DNS resolver receives a request for the same domain before the TTL expires, the resolver returns the cached value.
- It decreases the workload of the name servers.

How Does DNS Route Traffic To Your Web Application?

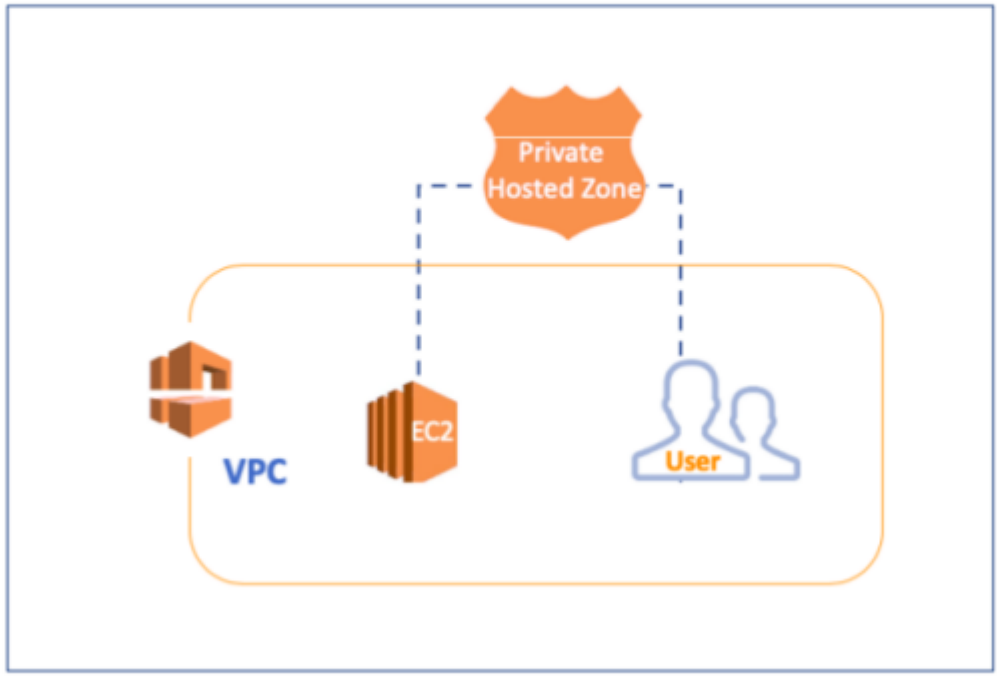


Components of Amazon Route 53

Public Hosted Zone



Private Hosted Zone



Components of Amazon Route 53 (DNS Records)

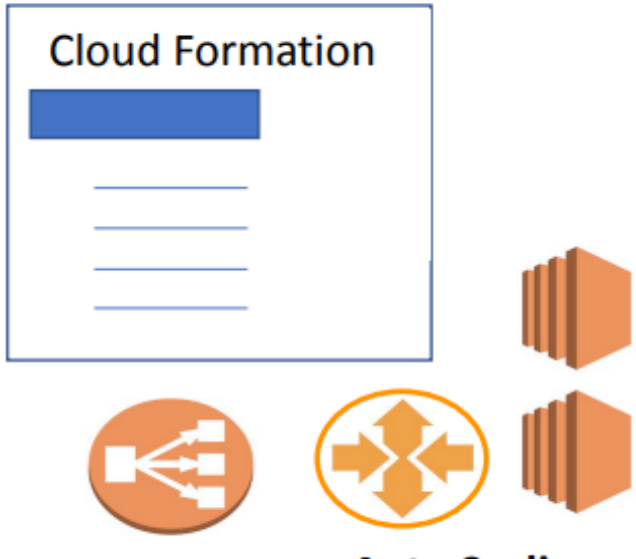
- NS (Name Server Record)
- SOA (Start of Authority Record)
- A (Address Record)
- CNAME (Canonical Name Record)
- PTR(Pointer Record)
- TXT(Text Record)
- CAA (Certification Authority Authorization)
- MX (Mail Exchange Record)
- NAPTR(Name Authority Pointer Record)
- AAAA(IPv6 Address Record)ü
- SPF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

Server Option and Their Outputs

Public IP: 52.87.192.40

Public DNS
:ec2-52-87-192-40.compute-1.amazonaws.com

http://info.awsdevopsteam.net.s3-website-us-east-1.amazonaws.com



URL:
http://route-myApp-1PSMDG52MMTLZ-1967692276.us-east-1.elb.amazonaws.com

- Public IP: 52.87.192.40
- Public DNS :ec2-52-87-192-40.compute-1.amazonaws.com
- http://info.awsdevopsteam.net.s3-website-us-east-1.amazonaws.com

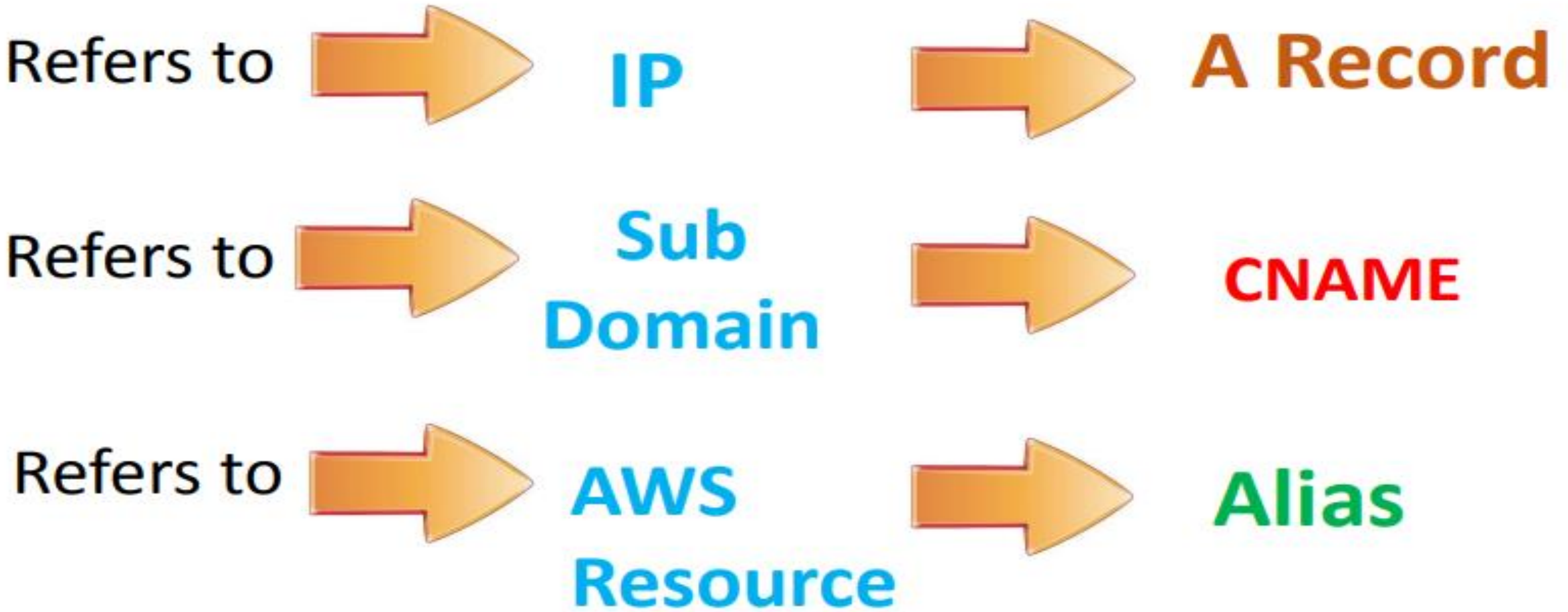
Not Human readable

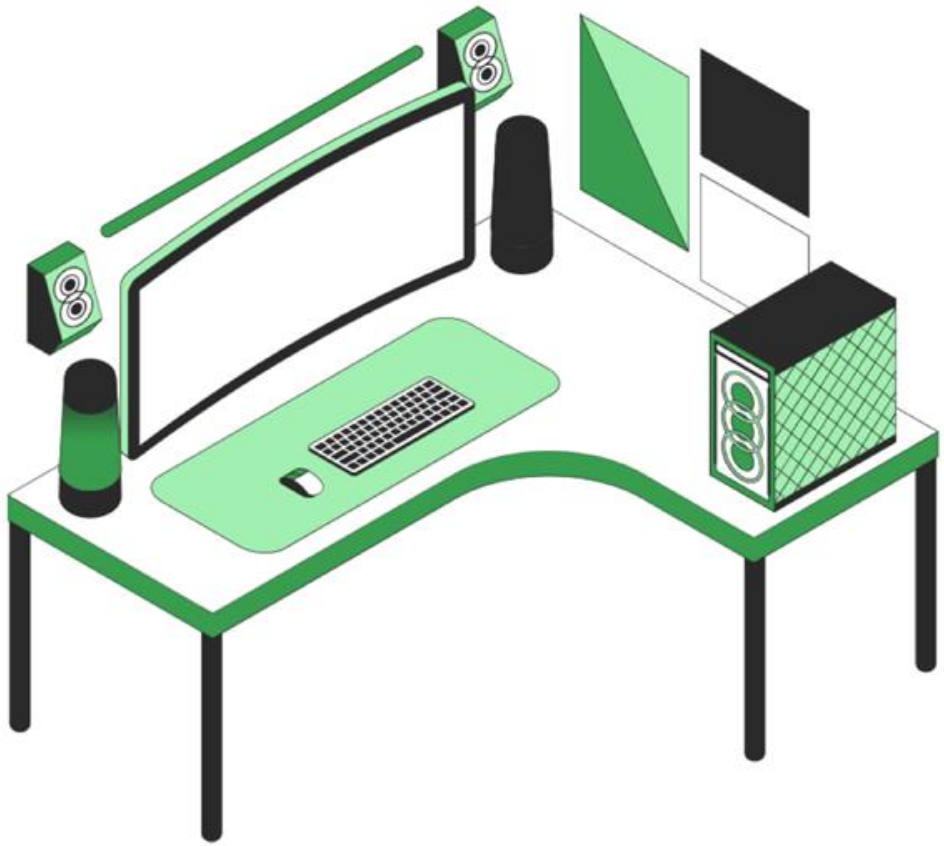
Amazon Route 53

What does Route 53 do?

Buy and Register a Domain	Create Domain Variations via Sub Domains	Mapping Value	Value Type	Record Type
awsdevopsteam.net (naked domain)	xxxx.awsdevopsteam.net	 Point out	IP of Server 1.2.3.4.5 Domain Name www.xxxxx.com End point S3 Bucket url Load Balancer	A AAA CNAME Alias

Value type determines the record type


Refers to
IP
A Record
Refers to
Sub Domain
CNAME
Refers to
AWS Resource
Alias



Do you have any questions?

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