

## Route 53

→ DNS is domain Name System is used to convert human friendly domain names into an Internet Protocol address.

IPv4 - 32 bit - 4 billion

IPv6 - 128 bit - 340 undellicon

→ Top Level Domain - .com, .edu, .gov

Internet Assigned Numbers has all available top level domains.

→ Domain Registrar keeps all domain unique.

→ Start of authority.

↳ Name

↳ administrator

↳ Current version

↳ default ttl on resource records.

→ Name Servers records. (NS)

→ A record, translate Name to Domain.

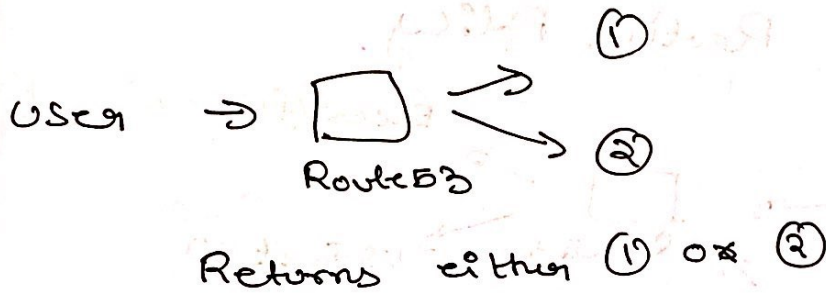
→ CName can be used to resolve one domain to another. (m, mobile etc) ⇒ CName's

→ Alias records used to map resource record sets in hosted zone.

→ These can provide naked domain names

→ Route 53 is global

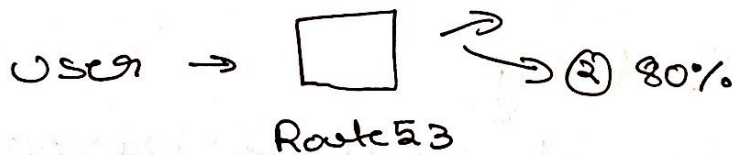
1) Simple Routing Policy



→ one record with multiple IP addresses.

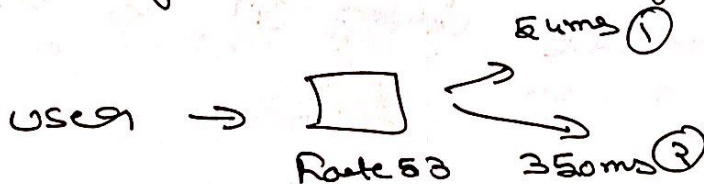
2) Weighted Routing Policy.

① 20%



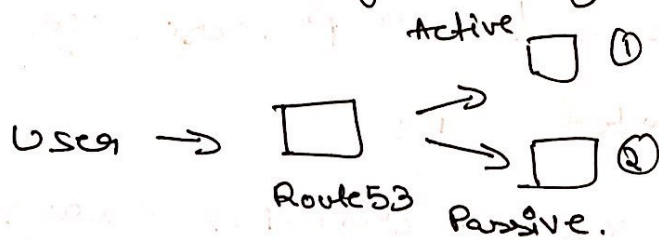
③ Latency Routing Policy.

→ allows you to route traffic based on latency.



→ Less latency servers

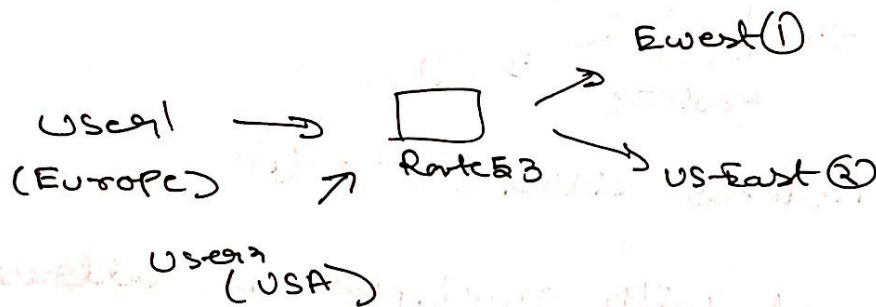
#### 4) Failover Routing Policy



→ If Active fails, routed to Passive

→ Primary, Secondary.

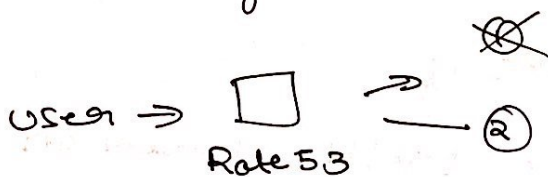
#### 5) Geolocation Routing Policy.



→ User redirected to corresponding source depending on the location.

#### 6) Multivalue Routing.

→ Route traffic of multiple resources



→ If ① fails result from ② is returned to the user.

→ There is no Domain Names for account but can be raised by contacting AWS Support.