Amazon Route 53

What?
- Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service.
- You can use Route 53 to perform four main functions in any combination: Domain registration, Domain Name System (DNS) service, Health checking and DNS Resolver. Route 53 can also be used with non-AWS resources.

Why?
- The globally distributed nature of Route 53 service helps ensure a consistent ability to route your end users to your application by circumventing any internet or network related issues. Using a global anycast network of DNS servers around the world, it is designed to automatically answer queries from the optimal location depending on network conditions.

When?
- You want to use any of the following routing policies to respond to queries: Simple routing policy, Failover routing policy, Geolocation routing policy, Geoproximity routing policy, Latency routing policy, Multivalue answer routing policy and Weighted routing policy.

Where?
- Amazon Route 53 is a global service.
- Route 53 uses a global network of DNS servers at a series of world-wide locations to offer you high availability and increased performance.

Who?
- When you register a domain with Route 53, AWS automatically make Route 53 the DNS service for the domain.
- You can configure Hosted zones, Resource records, Health checks, Traffic Policies, Route 53 resources and other settings for your resources.

How?
- When Route 53 receives a DNS query for a resource in a hosted it returns the IP address to requester.
- For Amazon VPC, Route 53 Resolver automatically uses a Resolver on the VPC to answer DNS queries.
- It uses health checks to monitor the health and performance of your web applications, web servers, and other resources.

How much?
- You pay a monthly charge for each hosted zone managed with Route 53.
- You incur charges for every DNS query answered by the Amazon Route 53 service
- You pay an annual charge for each domain name registered via or transferred into Route 53.