Route53

DNS-----DOMAIN NAME SYSTEM OR DOMAIN NAME SERVER

UDP ---PORT NO 53

NAME RESOLVE

WEBSITE -------WWW.ABC.COM ------------ IP ADDRESS

　　　　　　　IP ADDRESS ------NAME

DNS ZONE --------FORWARD LOOKUP--------NAME TO IP
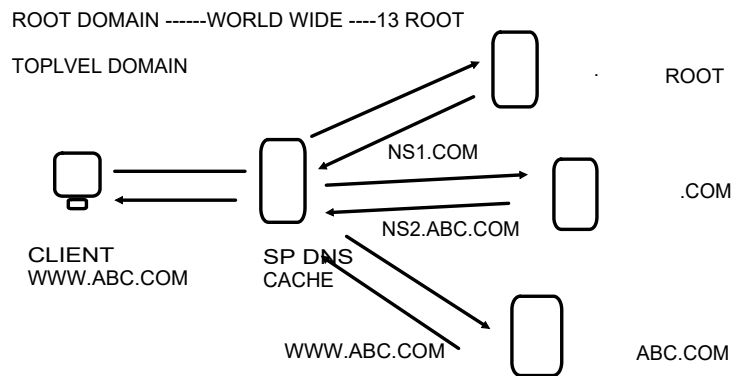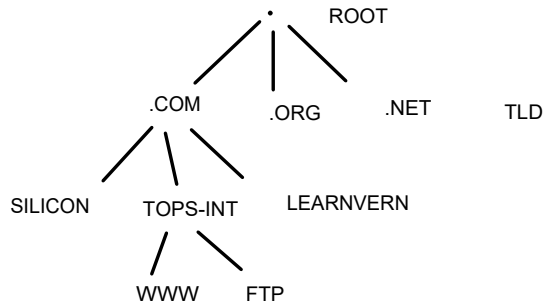　　　　　　　REVERSE LOOKUPZONE -----IP TO NAME
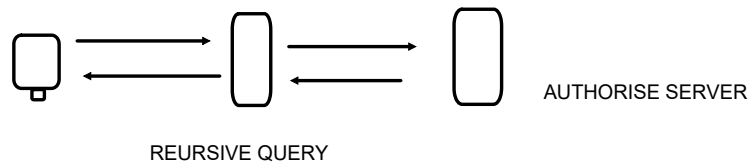
DOMAIN NAME --------HIEARCHICAL

TOPS-INT.COM

WWW.TOPS-INT.COM

ROOT DOMAIN----　.

WWW.ABC.COM.

TLD---TOP LEVEL DOMAIN

.COM .ORG .NET .GOV .EDU

.IN .US .UK

```
              .   ROOT
            / | \
          /   |   \
       .COM  .ORG  .NET      TLD
      / | \
    /   |   \
 SILICON TOPS-INT  LEARNVERN
       / \
      /   \
    WWW    FTP
```

ROOT DOMAIN ------WORLD WIDE ----13 ROOT

TOPLVEL DOMAIN

.   ROOT

NS1.COM

.COM

NS2.ABC.COM

CLIENT
WWW.ABC.COM

SP DNS
CACHE

WWW.ABC.COM

ABC.COM

QUERY------ITERATIVE QUERY

AUTHORISE SERVER

REURSIVE QUERY

WEB SERVER-------WEB SIDE-----

DOMAIN NAME PURCHASE

UNIQUE
ICANN------REGISTAR-----GODADDY

DOMAIN NAME --------SOA ---START OF AUTHORITY
　　　　　　　NAME SERVER

ROUTE53

AWS

ROUTE 53 REGISTAR

TRANSFER EXISTING DOMAIN

ROUTE TRAFIC------EXAMPLE GODADDY PURCHASE (EXISTING)

                              WANT TO RUN ON AWS

MONITOR

WEB SERVER
WEB SIDE ---S3
LOAD BALANCE

NOTIFICATION

DOMAIN NAME -----REGISTER

GENERIC LEVEL DOMAIN-----.COM   .ORG   .EDU .NET
GEOGRAPHICAL----------.IN   .PK   .UK .US

DOMAIN NAME -----ROUTE 53--------SOA
                              NAME SERVER
                              FOUR (NAME RESOLVE)
                              FORWARD LOOKUP ZONE CREATE
                              AS PER YOUR DOMAIN NAME

  GODADDY-------EXISTING ------DOMAIN NAME

  RUN FROM AWS ROUTE 53-------CREATE ------NAME SERVER

                                    NAME RESOLVE

  NAME SERVER -----GODADDY ------ENTRY-----

  MAXIMUM ----500 HOSTED ZONE

  MAXIMUM RESOURCE RECORD IN ZONE -----10000

  DELEGATE ROUTE 53

  CONNECT EVERYTHING TO MAKE IT WORK--

  IF YOUR HOSTED ZONE AT DIFFERENT REGISTAR AND MAKE ENTRY OF NAME SERVER IN THAT
  REGISTAR

  WHEN MIGRATE FROM ONE REGISTAR (DNS PROVIDER) TO ANOTHER REGISTAR (DNS
  PROVIDER)IT WILL TAKE 48 HOURS TO REPLICATE (GLOBALLY)

  IN AWS IF TLD IS INCLUDE THAN WE CAN MIGRATE OTHERWISE NOT

  AWS ROUTE53 IS GLOBALLY SERVICES

  AWS SUPPORT IPV6 ADDRESS ALSO.

  AWS HOSTED ZONE CRETE WHEN WE PURCHASE WITH ONE SOA AND FOUR NAME SERVER

  AWS HOSTED ZONE HAVE TO CREATE WHEN WE PURCHASE FROM ANOTHER REGISTAR

  HOSTED ZONE-----
  ROUTE TRAFIIC OF DOAMIN OR SUBDOMAIN---EXAMPLE WWW.SILICON.COM
                                    INFO@SILICON.COM
                                    SIPPORT.SILICON.COM

  NAME SERVER ENTRY ----CAN NOT DELETE AND CAN NOT CHANGE

  UNIQUE NAME SERVER ----EXAMPLE --NS-1337-AWSDNS-39.NET
                              NS-1407-AWSDNS-47.ORG

  SOA ----START OF AUTHORITY---AUTHORIZED SERVER

  --CAN CREATE MORE HOSTED ZONE WITH SAME NAME . ALL ZONE HAVE UNIQUE NAME SERVER
  IN IT

  WHEN WE MIGRATE ---METHOD OF NAME SERVER

  SOME DEMAND FOR NAME SERVER ENTRY
  SOME FOR IP ADDRESS ENTRY

  MIGRATE DOMAIN FROM ONE ACCOUNT TO ANOTHER ACCOUNT

  HOSTED ZONE NOT MIGARTE ---ZONE REMAIN IN THAT ACCOUNT BUT DOMAIN TRANSFER

  HOSTED ZONE IN OLD ACCOUNT AND DOMAIN IN NEW ACCOUNT

  RECORD----MAKE ENTRY

  A RECORD

  AAAA RECORD

  CNAME------REDIRECT OR HIDE ACTUAL NAME
          FOR SUBDOMAIN

  NS RECORD

  SOA------WHO IS OWNER , SERIAL NUMBER , CYCLE INFO ,TTL

  MX RECORD

ROUTING POLICY

AT THE TIME OF RECORD CREATE

1--SIMPLE ROUTING (DEFAULT)

2--FAILOVER ROUTING

3---GEOLOCATION ROUTING

4--MULTI VALUE ANSWER ROUTING

5--LATNCY BASE ROUTING

6 WEIGHTED ROUTING

7 GEO PROXIMITY