# AWS Route53

Route 53 is DNS as a service provided by AWS.

What is DNS?

→ On a day to day basis we use a lot of websites, which are of course deployed in some VPC. Any app/web launched anywhere have their own IP address, but have we ever had to use IP address to connect to a web/app. No. It is because each IP has a domain name.

Now, say a website has a domain name, it should be assigned to a load balancer or the app itself, this is done by DNS.

En:

USER

LB

NAT

S1

VPC
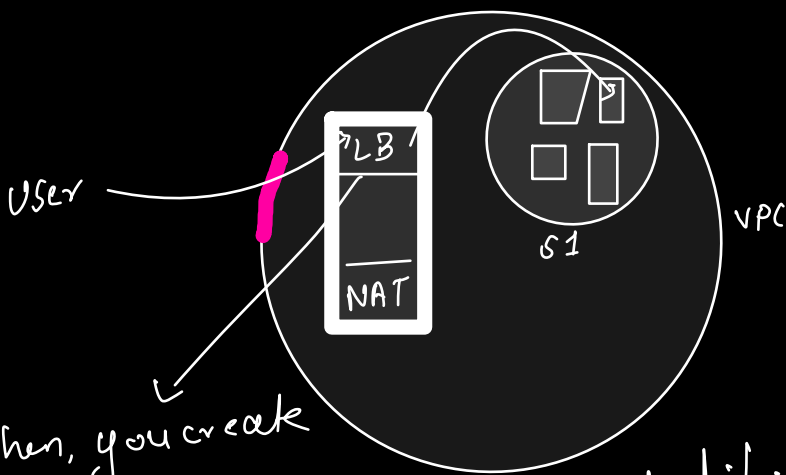
When, you create this LB, it gets an IP address but it is not public. It is for two reasons

① difficult to remember

② IP address are dynamic

∴ We need DNS

Now, Route 53 is a highly scalable and available DNS web service. It basically translates human readable domain name like www.geeksforgeeks.org into numeric IP addresess like 192.0.1.1 that computers used to connect.

Route 53 and health checks

→ Route 53 also performs health checks
by accessing the webservers every once in a while, and
if any are inactive, it resolves it).