

What is DNS?

- Domain Name System which translates the human friendly hostnames into the machine IP addresses
- www.google.com => 172.217.18.36
- DNS is the backbone of the Internet
- DNS uses hierarchical naming structure

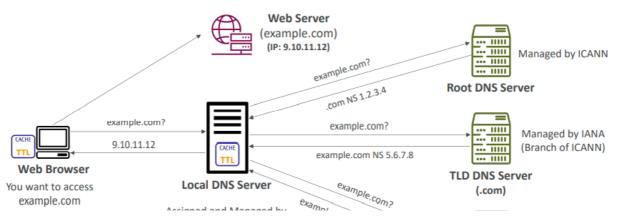
.com example.com www.example.com api.example.com

DNS Terminologies

- Domain Registrar: Amazon Route 53, GoDaddy, ...
- DNS Records: A, AAAA, CNAME, NS, ...
- Zone File: contains DNS records
- Name Server: resolves DNS queries (Authoritative or Non-Authoritative)
- Top Level Domain (TLD): .com, .us, .in, .gov, .org, ...
- Second Level Domain (SLD): amazon.com, google.com, ...



How DNS Works



Assigned and ivianaged by your company or assigned by your ISP dynamically

OneNote "Me.com IP 9.10.11.12 ··· IIIII Managed by Domain Registrar (e.g., Amazon Registrar, Inc.) **SLD DNS Server** (example.com)