

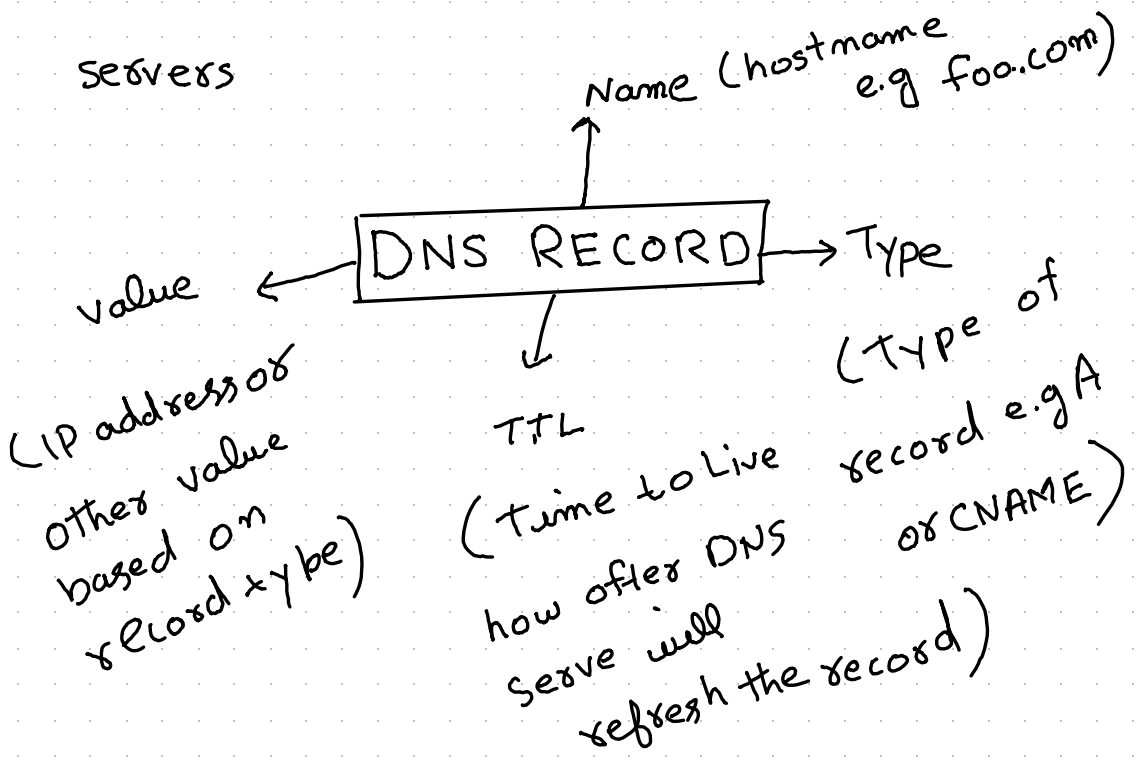
# Common DNS records

## Types

- DNS Record (aka Zonefiles)

→ How a hostname should be mapped?

→ DNS records live in DNS servers



# COMMON DNS RECORDS (Yasir 25.10.24)

## ① A Record

- Most common
- Show IPV4 address for a hostname or domain
- reside at authoritative DNS Server

### Example

<u>Type</u>	<u>name</u>	<u>value</u>	<u>TTL</u>
A	example.com	110.164.252.232	14400

## ② AAAA Record

- also known as quad A
- Show IPV6 address for a hostname or domain

### Example

<u>Type</u>	<u>name</u>	<u>value</u>	<u>TTL</u>
AAAA	example.com	IPV6	14400

## @ root domain

- refers to domain itself, without Subdomain

- if domain is example.com

@ indicate example.com, so the example from A Record can be like this:

<u>Type</u>	<u>name</u>	<u>value</u>	<u>TTL</u>
A	@	IPv4	14400

## ③ CNAME Record

- C stands for canonical
- Redirects one domain to a different domain.
- Use case: Company owns many domains use CNAME to redirect the main domain to

## Example:

Type	name	value	TTL
CNAME	foo-example.com	example.com	1440

## ④ MX Record

- Mail exchange record
- store domain name of mail server

<u>Type</u>	<u>name</u>	<u>value</u>	<u>priority</u>	<u>TTL</u>
MX	@	mx1.example.com	(10)	1h

↓  
lowers the  
number higher  
the priority

Normally more than one MX  
Records.

## ⑤ NS Record

- List of name servers that are authoritative for a domain

### Example

<u>Type</u>	<u>name</u>	<u>value</u>	<u>TTL</u>
NS	@	name1.example.com	21600
NS	@	nam2.example.com	21600

## ⑥ TXT Record

- provides descriptive information
- Mostly used to verify domain ownership

### Example

<u>Type</u>	<u>name</u>	<u>value</u>	<u>TTL</u>
TXT	@	example-site-verification=123	1800

## ⑦ PTR Record

- Pointer record
- Reverse of A & AAAA
- Maps IPV6 & IPV4 back to domain name

### Example

<u>Type</u>	<u>name</u>	<u>IP Address</u>	<u>TTL</u>
PTR	example.com	IPV4/IPV6	14400

## ⑧ SOA Record

- Start of authority, store admin info for domain. (admin address, zone serial No. etc)

### Example

<u>Type</u>	<u>name</u>	<u>Admin email ID</u>	<u>Primary / name server</u>
SOA	@	email	name1.example.com
		<u>Class Type</u>	
		IN	

## ⑨ SRV Record

- Define which host & port must be used by a specific services at an IP Address, like messaging or VOIP.

### Example

<u>Type</u>	<u>name</u>	<u>service</u>	<u>Protocol</u>
SRV	example.com	XMPP	TCP

<u>Priority</u>	<u>Weight</u>	<u>Port</u>
5	2	5223

### Host

server.example.com

—— X ——