

## CHAPTER - 06 DOMAIN NAME AND DNS NETWORKING

We will learn :



What is Domain Name



What is DNS



Records in DNS and their USE



What is Zone ?

What is Domain Name ?

Domain name is nothing but a Particular name of IP, to remember it easily.

e.g.

121.486.101.298

Google.com Domain name

What is DNS ?

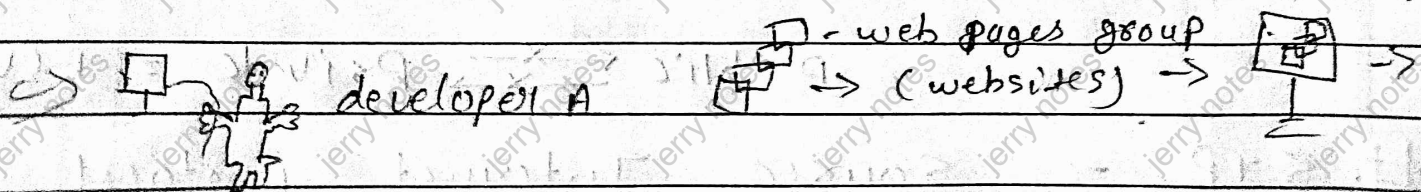
DNS stands for Domain name System

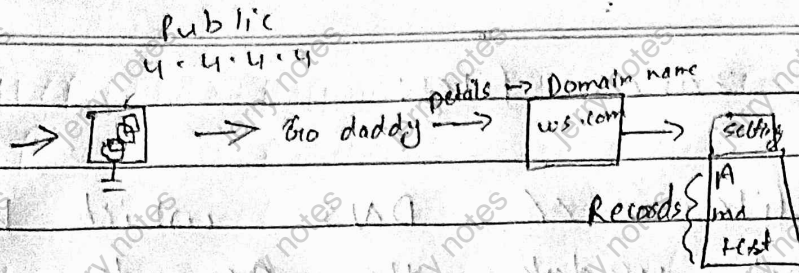
It is very useful in naming of sites like many websites have many different IPs which is much difficult to remember. So DNS provides a name of the address of IP to configure and access.

user name

e.g. ws.com (password

121.111  
Private IP





## Records in DNS and their use :

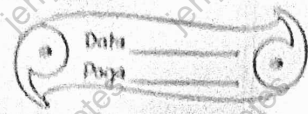
- ① A • IP of Domain Name 192.185.141.193
- ② CNAME • Forwards domain and subdomain to another domain
- ③ MX • Directs mail to email server
- ④ TXT • Any text by admin (SPF)
- ⑤ NS • Name server of DNS entry
- ⑥ SOA • Admin info about a domain
- ⑦ SRV • Specify port for specific service
- ⑧ PTR • Provides domain name in reverse-lookups

mx  $\Rightarrow$  eg. hr @ ws.com  $\rightarrow$  hr @ gmail.com

NS  $\Rightarrow$  NS<sub>1</sub> • ws.com  
NS<sub>2</sub> • ws.com

PTR  $\rightarrow$  Pointer  $\rightarrow$  another name

- DNS translates IP to domain
- DNS is address book of internet
- Store all data in form of records in zone files.
- e.g. Go daddy  $\rightarrow$  Domain manager  $\rightarrow$  updating records setting  $\rightarrow$  store the data name
- Zone Files (Private)
- Some Zone Files (Public)  $\rightarrow$  for search name servers  $\rightarrow$  Translate domain to IP  $\rightarrow$  message / packet server



What is zone files:

A text files of DNS which have records and update the Records.

by this allocate a IP and for being public usages provides a public Domain name to access.