DNS Hosts are IDEN by IP Addresses A directory service that translates hostnames to IP. To set the IP of a hostname 1. Use runs allert side 2. Browser extracts hostname, passes to DNS App 3. Serda query to DNS server 4. Recieves a reply for IP 5. Browser instrates EP TCP at Part 80 of IP Also does - Load Distribution - Distributes traffic to - Host Aliasing appropriate bostname - Mail Server chaising Workings Application asks client side of DNS to translate bost name Users host serels a query using UDP Aust 53 Host gets a reply message w/ the desired mapping App gets into We can't have a certialized DNS as 1. Only one shutdown will crash the internet 3. Too fer 4. Updated too ofter DNS is instead heirarchical Root DNS -400 names, managed by Barge Top Level Domin com DNS org DNS edu DNS - Companies maintain these Authoritive Lego Truset pls Tulare Website must provide publicly accessible records an sever Some have their own Some puny

Each ISP may have their (wir server (Lord DIS)

close to the host, some on the LAIS

Lord DNS -> Root -> TLD -> Authoritive -> low server of the lawy

4 awy

4 Replies

May ask mallyle attacking

Iterive query > Queies replying to the Edis

Roquesive query -> Referencing previous results
Ash does to get mapping or you sakely

Caching Saving somein parts of the map in local memory Bypens Root Server

DNS Records - DNS have record resources 4 tuple Time recorded

(Name, Value, Type, TTL)

Type A > Name and Value = Name IP

NS > Domain Hostname of Authoritive

(NAME > Value hold full host name

MX > Value is full mil Sever name

NS Lookup function allows you to see a DNS guery deathy

You respister now Domain names in a register.
Record Type and Resorce Record