How does DNS work?

The process of DNS resolution involves converting a host name into a computer friendly IP address is given to each device on the internet and that address is necessary to find appropriate internet device like a strat address is used to find a perticular home. when a user wants to load a webpage. A translation must occur between what a user type into their web browser and the machine friendly address necessary to locate the example.com web.

An order to understand the process behird the DNS server resolution. Its important to learn about different hardware components a DNS query must pass between There are 4 DNS server involved in headiry a webpage.

1. DNS Recursor   2. Rout Namessaver
3. TLD namesaver   4) Authotative namo.

Practical No-10

Aim:- Confuguation of DNS service in network.

Software required:- CISCO PACKET TRACER.

Theory:- DNS is a host name the IP address translation service. DNS is a distributed database implemented in a hierarchy on name servers.

It is on application layer protocol for message exchange between clients and servers.

Each device connected to the internet has a unique IP address which other machines use to find the device. DNS servers Dliminate the need for humans to memorize IP address such as 192.168.1.1 or more complex new alphanumeric IP address such as 2400: C00: 2048:1:.:C629. d742