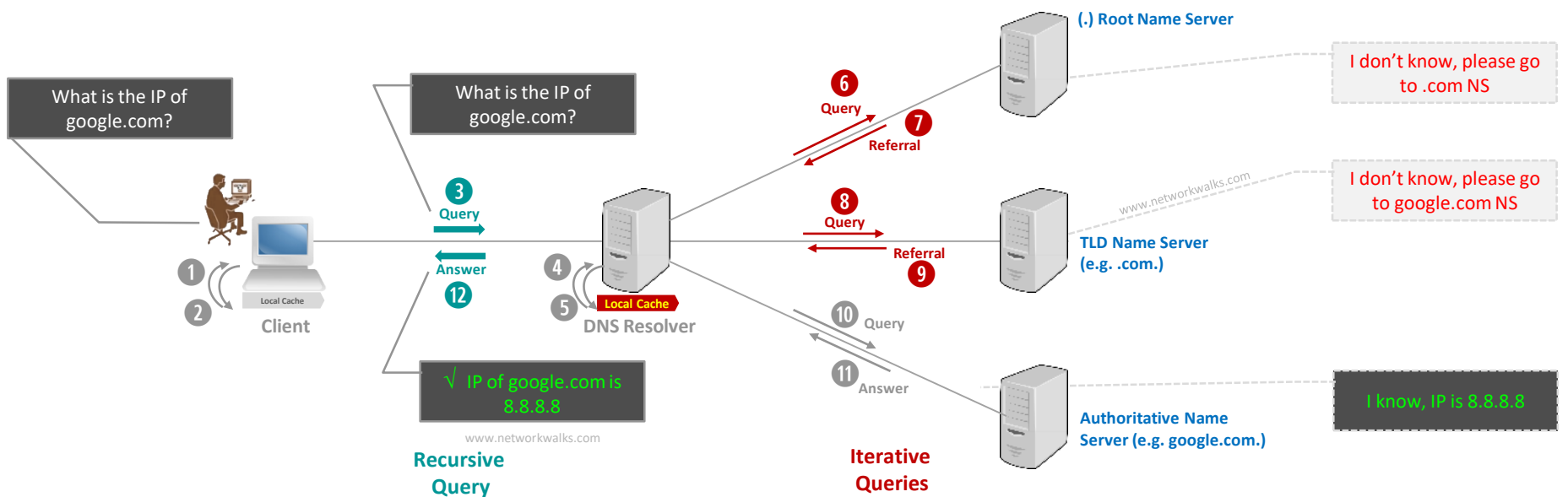


Key Attributes



Protocol Type:	Layer7 Protocol (Application Layer)
Purpose:	Name to IP conversion
Standard:	Current: RFC1034/1035 (1987), First: RFC882/883 (1983)
Structure:	Hierarchical
Founder:	Paul V. Mockapetris
Carrier Protocol:	TCP, UDP
Port:	TCP53 (for Zone Transfer), UDP53 (for DNS Queries)
Protocol Model Type:	Client/Server Model

DNS Working (with example)



***Recursive Query means:** I will definitely answer you; no matter wherever I have to go. OR I will tell you clearly that I do not know

***Iterative Query means:** I will try. Either I will give you answer OR I will refer you to someone who can answer

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DNS Server Types

Authoritative

A DNS Server that has the original source files of a domain zone files & doesn't need to go any other Database. Primary Auth DNS Server has Full Read/Write Access while Secondary Auth DNS Server has Read-Only Access

Non-Authoritative

A DNS Server that does NOT have the original source files of a domain zone files & either depends on its cache or need to go any other Database for final/auth answer. Also called Cache-Only DNS Server

Domain Name Types

FQDN

Fully Qualified Domain Name: Contains full name of a Host. It is terminated by NULL string. e.g. [www.atechacademy.com.](http://www.atechacademy.com)

PQDN

Partially Qualified Domain Name: Starts from a node but doesn't reach Root. It is NOT terminated by NULL string e.g. www.atech

DNS Query Types

1 Recursive Queries

If the DNS server cannot resolve a query, it sends query to other DNS Servers on behalf of the DNS Client. This is generally used by Clients

2 Iterative Queries

If the DNS server cannot resolve a query, it sends a referral to another server message to the resolver. Generally used by Servers

3 Inverse Queries

Used to resolve the IP Address to a FQDN

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