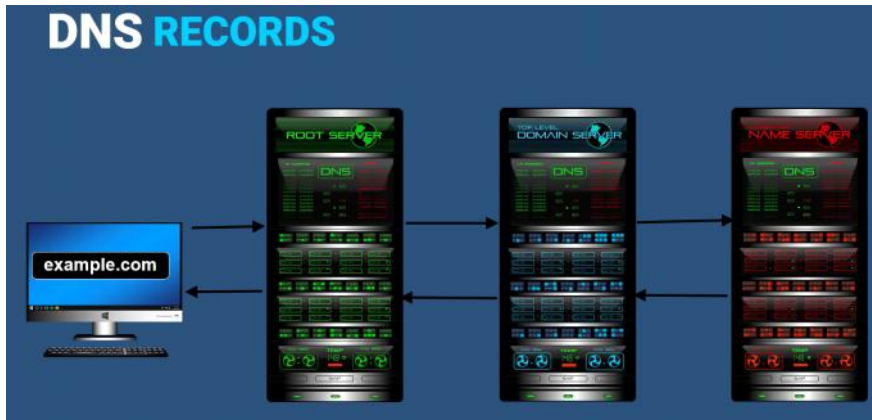


DNS Records Part 1

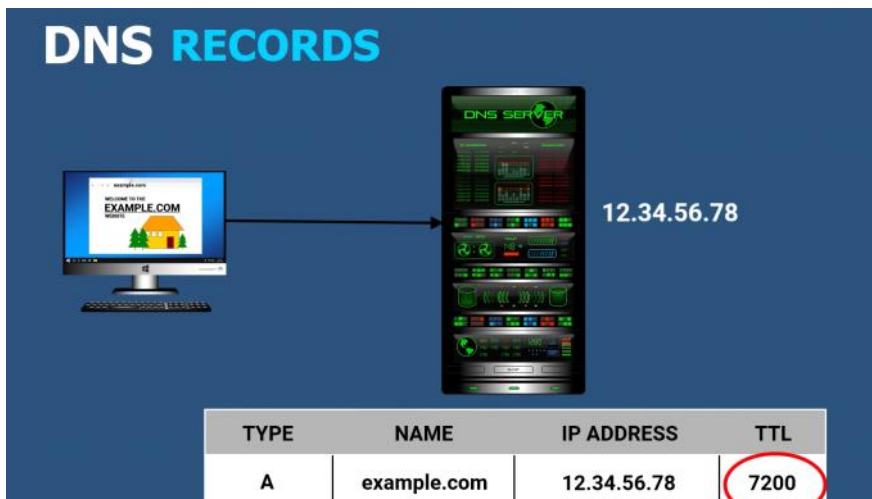
Wednesday, February 18, 2026 11:27 PM

DNS basics -

- Root Servers: These are the starting point. They point you to the right Top-Level Domain (TLD) server (like the .com or .org server).
- TLD Servers: These are different for each domain extension (e.g., .com and .org have separate servers). They then point you to the final destination, the Name Server.
- Name Server: This is where the website's actual IP address is stored



A Record



A Record: Also known as an Address Record.

Most Common DNS Record: It's widely used in the DNS system.

Purpose: Resolves a domain name (like example.com) to an IP address.

IP Version: Specifically resolves to an IPv4 address, which is a 32-bit numeric address.

Time To Live (TTL): This field indicates how long the record is valid before it needs to be updated.

AAA Record

DNS RECORDS



TYPE	NAME	IP ADDRESS	TTL
AAAA	example.com	2501:0:53b::3 330:c2f4	7200

The **AAAA** record resolves domain names to IP addresses (IPv6).

AAAA Record (Quad-A Record):

Similar to an A Record, it resolves domain names to IP addresses.

The key difference is that it resolves to an IPv6 address, which is a 128-bit alphanumeric address.