

Copilot

Certainly! Let's explore some common DNS (Domain Name System) interview questions along with sample answers to help you prepare:

1. Describe DNS in your own words.

- **Answer:** DNS is like the internet's phone book. It translates human-friendly domain names (like "google.com") into IP addresses (like "172.217.3.110") that computers understand. It's crucial for web browsing and network communication.

2. What are zones in DNS?

- **Answer:** DNS zones are administrative domains within the DNS hierarchy. They contain resource records (like A, CNAME, MX) for specific domains or subdomains.

3. What is a Nameserver?

- **Answer:** Nameservers (DNS servers) store DNS records and respond to queries. They're essential for resolving domain names to IP addresses.

4. What is spoofing?

- **Answer:** Spoofing is when a malicious actor impersonates a legitimate source (e.g., DNS server) to redirect traffic or deceive users.

5. What is DDNS (Dynamic DNS)?

- **Answer:** DDNS dynamically updates DNS records when IP addresses change (common for home networks with dynamic IPs).

6. Common DNS Servers:

- **Answer:** Some popular DNS servers include BIND, Microsoft DNS, Google Public DNS, and Cloudflare DNS.

7. Different Record Types:

- **Answer:** DNS records include:
 - **A Record:** Maps domain to an IPv4 address.
 - **CNAME Record:** Creates aliases (e.g., "www" to "example.com").
 - **MX Record:** Specifies mail servers for a domain.
 - **TXT Record:** Holds arbitrary text (often used for SPF records).

8. What is a DNS resolver?

- **Answer:** A DNS resolver queries DNS servers to resolve domain names into IP addresses.

9. What is a caching-only server?

- **Answer:** A caching-only server doesn't host authoritative records but caches responses to improve performance.